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CATALOGUE

OF

ORIENTAL AND SOUTH ASIATIC NEMOCERA.

By

E. BRUNETTI.

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AUTHOR'S PREFACE.

The preparation of the present Catalogue has extended over several years, and it has been laid aside frequently in favour of more urgent work; this fact, in conjunction with the wholesale revisions in the classification of the Culicidae, rendered necessary in its progress by the publication of numerous papers by various authors, and the large number of additions and alterations in Cecidomyidae, Chironomidae and Tipulidae combining to render the task one of considerable difficulty.

It follows that omissions and inaccuracies must have occurred, and, as a matter of fact, they are continually coming to light. The catalogue is not made up to any particular date, all available names being incorporated up to about the middle of 1919, but the printing has been a matter of many months and it has therefore been impossible to include, even in the "Errata and Addenda," the very latest accessions to the Oriental Fauna. The Author trusts that these facts may be taken into consideration. Readers will very greatly assist him by notifying errors as they are discovered.

E. Brunetti.

Calcutta, May 6th, 1920.

I. CATALOGUE OF ORIENTAL AND SOUTH ASIATIC NEMOCERA.

By E. Brunetti.

Introduction.

Van Der Wulp's "Catalogue of the Diptera of South Asia" (1896) has been the only one available since its publication, and the want of a more up-to-date work has probably been felt by all workers in this somewhat neglected order of insects. The present effort is, so far as the first suborder goes, an endeavour to fill the breach *pro tempore*, for the study of oriental diptera is very obviously still in its infancy.

The arrangement of families and subfamilies is the one that appears to me most natural, and the nomenclature adopted is that which has, with few exceptions, been used by the leading dipterologists of the past three quarters of a century. The opportunity may here be taken to state my unshakeable adherence to both the present classification and nomenclature. The continual shuffling of names under the guise of priority is a wholly unnecessary handicap to effective study, and the only way to establish finality is to retain the nomenclature which has been found satisfactory by practically all the greatest writers on diptera. Osten Sacken and Verrall openly confessed to "continuity before priority" and I cannot but whole-heartedly agree with them in the best interests of the science itself.

As has been pointed out by others besides myself, Meigen's paper of 1800 (which has been the chief cause of the suggested general overturning of the principal generic and family names throughout the order by the strict priorist) was not binomial, no species being given as representative of the genera described. This fact, therefore, in itself entirely invalidates its acceptance under the customary laws of zoological literature, and the adoption of the names contained in it seems to suggest merely a morbid craving for continual change.

It is not out of place to recall Verrall's view that it is incumbent upon us to accept the methods of the writers of old and the etiquette of their times. Meigen's "1800 paper" as it has been called was wholly preparatory; the author himself almost entirely ignored it in his later works, and his right to rename his genera was never questioned by his *confrères* at the time he wrote.

My own fixed policy is to retain the nomenclature as employed by the principal authors of the last century, Schiner, Loew Meigen, Macquart, Walker, Osten Sacken, Verrall and their contemporaries, and family and subfamily names should be held in-

violable for ever. Generic and specific names of long standing should be similarly regarded and the strict priorist discouraged in every possible way. Within the last few years I read somewhere that the great majority of American and German zoologists were opposed to the rigid application of the law of priority yet the International Commission appear to be mainly composed of those of the opposite way of thinking.

Some endeavour has been made to ascertain the location of types but for various reasons the results have not been over-satisfactory. My best thanks are due and tendered to those who have assisted me in this matter, notably Mr. Edwards of the British Museum and Mr. F. V. Theobald respecting many of his types in Culicidae.

A number of types (though of which species is by no means certain) of Walker and of Doleschall described from the Malay Peninsula and the East Indian Islands are definitely known to be lost and a certain number of those of Osten Sacken have been for many years, presumed lost also. In cases where the location of the type is not stated in the present Catalogue it simply means that no information has been obtained about it. All types of my own species, unless otherwise stated, were in good condition at the time of description.

REFERENCE LIST OF LOCALITIES.

Albay, a Province in Luzon.
Angeles, Pampanga, Philippine Is.
Armageon, east coast, India.
Aru (Aroe), one of the East Indian Islands.
Astrolabe Bay, Papua.
Aurangabad, Hyderabad State.

Badrinath, 10,200 ft., Garhwal Dist., United Provinces, India.
Bago, 450 ft., Negros Occidental, Philippine Is.
Bakloh, 4,500—5,000 ft., Punjab.
Balighai, near Puri, Orissa.
Bandaong (Bandong), Java.
Bangalore. 3,000 ft., Mysore State, S. India.
Barogh, 5,000 ft., Simla Dist., Western Himalayas.
Bataan, one of the Philippines.
Batticaloa, district on E. Coast of Ceylon.
Bayembang, Pangasinan, Philippine Is.
Benguet, Province in Luzon.
Berars, Province in the Deccan, India.
Berhampur, Murshidabad Dist., Bengal.
Berlinhafen, Papua.
Bhim Tal, 4,500 ft., Kumaon Div., W. Himalayas.
Bhogaon, Purneah Dist., Bihar, India.
Bhowali, 5,700 ft., Kumaon Div., W. Himalayas.
Buitenzorg, Java.

Bukit Kutu, 3,400 ft., Federated Malay States.
Bulaco, Mindoro Is., Philippines.

Camerines Sur, Province in Luzon.
Canara, see North Kanara.
Canlaon Volcano, 2,300 ft., Negros Is., Philippines.
Castle Rock, N. Kanara District, Western India.
Cavite, near Manila (Luzon).
Cebu, one of the Philippines.
Chilka Lake, east coast of India.
Chitlong, Nepal.
Chittagong, Eastern Bengal.
Cochin State, South India.
Coconada, East Coast, Madras Presidency.
Coonoor, 6,000 ft., Nilgiri Hills, Madras Presidency.
Coromandel, 2,500 ft., east coast of India.
Cottabato, Mindanao, Philippine Is.

Dacca, district in Eastern Bengal.
Damukdia, Damukdia Ghat, on River Ganges (Calcutta-Darjiling route), N. Bengal.
Darjiling, Eastern Himalayas: most of the localities given in this catalogue are from the town and its immediate neighbourhood, about 6,900 ft. The altitude of the district ranges from about 1,000 to 10,000 ft.
Dawna Hills, 2,000—3,000 ft., Amherst Dist., Burma.
Deccan, a general term for Hyderabad State and adjacent districts, India.
Deesa, Cantonment in Bombay Presidency.
Dehra Dun, foot of Mussoorie Hills, W. Himalayas.
Depok, Java.
Deslac Island, off coast of Papua.
Dharampur, 5,000 ft., Simla District.
Dharamsala, West Himalayas.
Dindings, Straits Settlement.
Djokjokarta, Java.
Dondra, extreme south of Ceylon.
Dorey, a small island off Papua.
Dum Dum, near (and N. of) Calcutta.

Ellichpur, Berar, Central India.
Ennur, Madras Coast.
Erima, Astrolabe Bay, Papua.
Ernakulam, Cochin.
Etawah, district in United Provinces, India.
Etna Bai, South Papua.

Ferozepore, district and city in the Punjab.
Foo Chow, South China.
Fort McKinley, Luzon, Philippine Is.
Friedrich Wilhelmshafen, Papua.

Galle, south coast of Ceylon.
Gangtok, 6,000 ft., Sikkim State.
Garhwal Dist., base of Western Himalayas.
Ghoom, 7,500—8,000 ft., above Darjiling.
Goa, district on west coast of India (Portuguese).
Gombong, Mid-Java.
Gonda, N. India, south of Nepal.
Gopkuda Island, Chilka Lake, east coast of India.
Gorontalo, Malay Archipelago.
Guimaris Is., Philippines.
Gunung Ungaren, Java.

Hakgala, 7,000 ft., Central Ceylon.
Hajonoy, Luzon.
Hoshangabad, Central Provinces, India.
Huon Gulf, Papua.

Jalpaiguri, N. Bengal plains, south of Darjiling.
Jeypore, State in Madras Presidency.
Jhansi, district in United Provinces, India.
Jhaunsa, Tons Valley, Western Himalayas.
Jolo, Island and City, Philippines.
Jubbelpore (Jubbulpur, etc.), Central Provinces, India.
Jugra, 1,000 ft., on solitary hill on Langat Riv., Federated Malay States.

Kandy, 1,600—1,700 ft., Central Ceylon.
Kangra Valley, 4,500—4,800 ft., Punjab.
Karachi, city on west coast of India, Sind.
Karwar, Coast Town, Bombay Presidency.
Kalimpong, 2,000—5,500 ft., Darjiling District.
Kasauli, 6,300 ft., Simla District.
Katihar, Purnea Dist., Bihar, India.
Katmandu, Nepal.
Kawkareik, base of Dawna Hills, Tenasserim.
Key Islands, Eastern Malay Archipelago.
Khasi Hills, Assam, S. of Brahmaputra R.
Klang, on Klang Riv., Federated Malay States.
Kuala Lumpur, Selangor State, Federated Malay States.
Kuching, British N. Borneo.
Kufri, 8,000 ft., Simla District, Western Himalayas.
Kumaon, Area in Western Himalayas, including Naini Tal and Bhim Tal.
Kurseong, about 5,000 ft., below Darjiling.

Laguna, Province in Luzon.
Lahago, Central Lias Island.
Lahore, Punjab.
Lake Chilka, east coast of India.
Laos, Siam.

Leyte, one of the Philippines.
Lushai Hills, Assam, on N E. Frontier of India.
Luzon, the principal island in the Philippines, in which is Manila.

Macassar (Makessar), Celebes.
Maddathorai, Travancore State, S. India.
Madhupur, Bengal.
Madulsima, 2,500–3,000 ft., Central Ceylon.
Makerian, Punjab.
Mandalay, district and city in Upper Burma.
Manila, Luzon.
Manipur, State in Assam.
Margherita, Assam.
Marinduque, one of the Philippines.
Masbata, one of the Philippines.
Maskeliya, 4,000 ft., Central Ceylon.
Matheran, Bombay Presidency, India.
Matiana, 8,000 ft., Simla District, Western Himalayas.
Mazbat, Mangaldai Dist., Assam.
Medan, Sumatra.
Meenglass, Dooars, Jalpaiguri, Bengal.
Merauke, South Papua.
Mergue, Assam.
Mergui, Tenasserim, Lower Burma.
Mian Mir, near Lahore (*q.v.*).
Mindanao, one of the Philippines.
Mindoro, one of the Philippines.
Moerah Tewah, Borneo.
Moradabad, United Provinces, India.
Moulmein, Amherst District, Tenasserim, Lower Burma.
Mount Hauseman, Astrolabe Bay, Papua.
Mount Singalang, Sumatra.
Mount Siya-Siya ; *v.* Canlaon Volcano.
Mozufferpore, Bihar, India.
Muina, Papua.
Mungphu, 5,000 ft., Darjiling District, Eastern Himalayas.
Murree Hills, W. Himalayas, Punjab.
Mussoorie, 6,000—7,000 ft., Western Himalayas.
Mysore, State in S. India.

Nagpur, town and district in Central Provinces, India.
Naini Tal, 6,500—7,000 ft.. Kumaon, W. Himalayas.
Nara Ghat, Nepal, near Indian Frontier.
Narcondam Island, Bay of Bengal, 80 miles East of North Andaman Island.
Nedumangad, 10 miles N.E. of Trivandrum (*q.v.*).
Negros (Occidental), one of the Philippines.
Nicobar Islands, south of the Andamans.
Nilgiri Hills, about 3,000—8,000 ft., Madras Presidency.

Nongpoh, Assam.
North Kanara Dist., on Goa Frontier, Western Coast of Bombay Presidency.
N.B.—South Kanara Dist. is in Madras Presidency.

Ootacamund, Nilgiri Hills, South India, alt. 7,000--8,000 ft.
Orissa, East Coast of India.

Padang, W. Sumatra.
Pahang, Malay States.
Palawan, one of the Philippines.
Pallode, Travancore State, S. India.
Pampanga, Province in Luzon.
Pangasinan, Province in Luzon.
Pangerango, Java.
Pangkor Haut, Malay Peninsula.
Parang, Mindanao, Philippine Is.
Paresnath Hill (4,800 ft.), Bihar.
Paumonu River, Papua.
Peradeniya, Ceylon, 4 miles from Kandy.
Perak, Federated Malay States.
Phagu, 8,700—9,000 ft., Simla District, Western Himalayas.
Phrapatoon, Siam.
Port Canning, 30 miles S. of Calcutta, on Matla River.
Port Swettenham, Selangor, Federated Malay States.
Preanger, Borneo.
Pundaluoya, 5,000 ft., Mid-Ceylon.
Puri, Orissa Coast.
Purneah, district in Bihar, India.
Pusa (Agricultural Research Institute), Bihar, India.

Quilon, Coast Town, Travancore, S. India.

Rajmahal, N. Bengal.
Rajpore, base of Mussoorie Hills, Western Himalayas.
Rajshahi, North Bengal.
Ranikhet (Ranaghat, Reneghat), 4,000 ft., Kumaon, Western Himalayas.
Raub, Pahang, Federated Malay States.
Rawas, Mid-Sumatra.
Rio Baco, Chicago, Mindoro, Philippine Is.
Rizal, Province in Luzon.

Samar, one of the Philippines.
Sambalpur, Central Provinces, India.
Selangor, Federated Malay States.
Seleo Berlinhafen, Papua.
Selve, Papua.
Semarang, Java.
Senchal, 8,000 ft., Darjiling District, E. Himalayas

Serang Tjimahi, Java.
Shahjahanpur, district in United Provinces, India.
Shamnagar, Bengal.
Shan Hills, Upper Burma.
Shaohyling, S. China.
Shasthancotta, Travancore State, S. India.
Shencotta, Travancore State, S. India.
Shillong, 4,900—6,400 ft., Assam.
Sibsagar, Assam.
Sikhim (Sikkim), State in Eastern Himalayas, often confused with Darjiling District.
Siliguri, base of Darjiling Hills, 200 ft.
Simbang, Huon Gulf, Papua.
Simla, 7,000—8,000 ft., town in Simla District, Western Himalayas.
Singla, 1,500 ft., Darjiling District.
Soekaboemi, City on E. extremity of Java.
Soerabaya, East Java.
Soeroelangoen, Sumatra.
Soondrijal, Nepal.
Stephansort, Papua.
Sukna, 500 ft., base of Darjiling Hills.
Sukwani, Nepal, near Indian Frontier.
Sula, Indo-Malay Archipelago.
Sureil, 5,000 ft., Darjiling District.
Sylhet, district in Assam.

Taiping, Perak, Federated Malay States.
Talewadi, near Castle Rock, N. Kanara District, Bombay Presidency.
Tamsui, Formosa.
Tandjong, N.E. Sumatra.
Tandjong Priok, near Batavia, Java.
Tandong, 4,000 ft., Tenasserim.
Tayabas, Province in Luzon.
Tellschong, Nicobar Islands.
Tenmalai, Western Ghats, Travancore State.
Thaumaspur, Lower Nepalese Himalayas.
Thayetmyo, Upper Burma.
"The Gap," Pass between Selangor and Pahang, Federated Malay States.
Theog, 8,000 ft., Simla District, Western Himalayas.
Tonglu, 10,000 ft., Darjiling Distr.
Tosari, E. Java.
Travancore, State in S. India.
Trivandrum, Capital of Travancore State, S. India.
Trincomalee (Hot Wells), 8 miles inland, east coast of Ceylon.

Ukhrul, 6,400 ft., Manipur State, Assam.
Ulu Gombok, 13 miles from Kuala Lumpur, Selangor.
Ulu Klang, near Kuala Lumpur.
Umling, Assam

Waigiou, one of the East Indian Islands.
Waria River, British Papua.
Weligama, south coast of Ceylon.
West Lake, Hangchow (Hankow), South China.
Wonosobo, Java.

Yomba, Papua.
Yunnan, Province in South China on Burmese Frontier.

Family CECIDOMYIIDAE.

It should be remarked respecting the nomenclature of this family that the alterations suggested by Dr. Karsch, and accepted by Rübsaamen, Keiffer and others, have been vigorously opposed by both Aldrich and Osten Sacken. Aldrich says (Cat. N. Amer. Dipt., 152): "The practical effect of the changes adopted by Karsch, Rübsaamen and Kieffer is to apply the name *Cecidomyia* to the *Diplosis* of Osten Sacken's catalogue, and to divide up his *Cecidomyia* between *Rhabdophaga* and *Dasyneura*......the adoption of the changed nomenclature will leave few members of the family in the same genera to which Osten Sacken referred them."

Osten Sacken had expounded and, I think, fully substantiated his views (Ent. Month. Mag., 1901, p. 40) and concluded as follows: "What I would propose now would be to restore as far as possible the original concept of *Cecidomyia* of Meigen and Latreille, and to consider the very numerous new genera, since formed at its expense, as *subgenera*."

My own view is identical, but having no practical experience of the family I refrain from inaugurating the change in the present catalogue.

It must also be noted that species of which the adult form is not known are not included as an integral part of the catalogue, but the *names* of such species are given, with a brief reference to the works in which they are described.

Subfamily *CECIDOMYINAE*.

Sect. Lasiopterariae.

Kieff., Gen. Ins., Fasc. 152, 18, tab. gen.

Lasioptera, Mg.

Syst. Besch. I, 88 (1818).
Sch., F. Austr. II, 406: Kief., Gen. Ins., Fasc. 152, 30: Auctt. var.
Genotype, *Cecidomyia albipennis* Mg., according to Coquillett's designation in 1910.
Diomyza, Megerle in Mg., Syst. Besch., I, 89 (1818).
Genotype, *Lasioptera picta* Mg., by original designation.

bryoniae Sch., Nov. Reise, Dipt., 5, ♂ ♀, pl. i, 2, wing, 3, ant. (1868).
Madras. *Type* in Vienna Museum.

textor Kieff., Ann. Soc. Sci. Brux. XXIX, 155, ♀ (1905).
Bengal. *Type* in Kieffer's collection. Kieffer erects two species, *longispatha* and *trilobata* in Marcellia VII, but only the gall and larva of each is described.

fluitans Felt, Ent. News, XXVIII, 73, ♂ ♀ (1917).
Coimbatore, 3-xii-15 [*Y. R. Rao*]. From galls in *Panicum fluitans.* "*Type* Cecid. a2779."

Prolasioptera, Kieff.

Bull. Soc. Hist. Nat. Metz XXVIII, 47 (1913).
Kieff., Gen Ins., Fasc. 152, 33.
Genotype, *Lasioptera niveocincta* Kieff., by original designation.

javanica Kieff. and Leeuwen-Reijnvaan, Marcellia IX, 123, ♂ ♀ (*Lasioptera*) (1909).
Java. *Type* in Kieffer's collection.

Sect. Oligotrophariae.

Kieff., Gen. Ins., Fasc. 152, 34, tab. gen.

Microperrisia, Kieff.

Neue Gallmucken Gattungen, Bitsch, 2 (1912).
Genotype unknown to present author.

pulvinariae Felt, Jour. N. Yk. Ent. Soc. XXIII, 174 (1915).
Philippine Is.

Panteliola, Kieff.

Bull. Soc. Hist. Nat. Metz XXVIII, 49 (1913).
Kieff., Gen. Ins., Fasc. 152, 46.
Genotype, presumably *P. haasi*, sp. nov., *loc. cit.*

One species only (*P. haasi*, Kieff., *loc. cit.*) has been described of this genus, but the imago is not known. It is from Bengal.

Oligotrophus, Latr.

Hist. Nat. Crust. Ins. XIV, 288 (1805).
Kieff., Gen. Ins., Fasc. 152, 49.
Genotype, *Tipula juniperinus* Linn., by original designation.

No species in the adult has been described from the Orient. The following have been set up on the gall, larva or pupa. *O. indicus* (*nom. nov.* for *indianus* preocc.), *ischaemi*, *mangiferae*, *quadrilobatus*, *saligneus* and *tenuispatha*, all by Kieffer except

saligneus for which no author is quoted by that author in the Genera Insectorum.

Trichoperrisia, Kieff.

Rec. Ind. Mus. IX, 199 (1913).
Kieff., Gen. Ins., Fasc. 152, 65.
Genotype, *T. pipericola* Kieff., by original designation.

pipericola Kieff., Rec. Ind. Mus. IX, 199, ♂ (1913).
Peradeniya. The *type* should be in the Indian Museum, but has apparently not been returned by the author.

Harpomyia, Felt.

Can. Ent. XLVIII, 401 (1916).
Genotype, *H. indica* Felt, sp. nov., *loc. cit.*

indica Felt, Can. Ent. XLVIII, 401, ♂ ♀ (1916).
Pusa (presumably), 19-viii-15 [*Bahadur*]; reared from larvae found under the lining of a felt cap.

Dasyneura, Rond.

Sopra alcuni nuovi generi d'insetti Ditteri, Parma, p. 17 (*Dasineura*) (1840).
Kieff., Gen. Ins., Fasc. 152, 86.
Genotype, *D. obscura* Rond., by original designation.

gossypii Felt, Can. Ent. XLVIII, 29, ♀ (1916).
"*Type* Cecid. a2678." Sent by Mr. T. B. Fletcher, from S. India; ♂ ♀ figured (unnamed) in his "South Indian Insects."

Sect. Asphondylariae.

Kieff., Gen. Ins., Fasc. 152, 87, tab. gen.

Schizomyia, Kieff.

Ent. Nach. XIV, 183 (1889).
Kieff., Gen. Ins., Fasc. 152, 88.
Genotype, *S. galii* Kieff.

Only two species *S. indica*, Kieff. and *S. incerta*, Kieff. (Marcellia VII, 154, 1908) have been described from the Orient, but the imagos are not known.

Asphondylia, Loew.

Dipt. Beitr. IV, 21 (1850).
Sch., F. Austr. II, 395: Kieff., Gen. Ins., Fasc. 152, 91: *Auctt.*
Genotype, *Cecidomyia sarothamni* Lw., according to Coquillett.

Phyllophaga, Rond., Dipt. Ital. Prod. I, 199 (1856).
Genotype, *Cecidomyia fusca* Mg., by original designation.

Cylindrocera, Lioy, Atti. Istit. Veneto (3) IX, 503 (1863).

viticola Kieff. and Leeuwen, Marcellia VIII, 124, ♂ ♀ (1909).
Java. *Type* in Kieffer's collection.

sesami Felt, Can Ent. XLVIII, 31, ♂ ♀ (1916).
South India, vi-12, reared from galls on the "gingelly" plant (*Sesamum indicum*). Adult (unnamed) and gall figured in Fletcher's "South Indian Insects," p. 364.

Daphnephila, Kieff.

Ann. Soc. Sci. Brux. XXIX, 144 (1905).
Kieff., Gen. Ins., Fasc. 152, 96.
GENOTYPE, *D. haasii* Kieff., by original designation.

haasi Kieff., Ann. Soc. Sci. Brux. XXIX, 144, ♂ ♀ (1905).
Bengal. *Types* in Kieffer's collection.

glandifex, *id.*, *loc cit.*, 148, ♀ (1905).
Bengal. *Type* in Kieffer's collection.

linderae, *id.*, *loc. cit.*, 149, ♂ (1905).
Bengal. *Type* in Kieffer's collection.

Sect. BRACHYNEURARIAE.

Kieff., Gen. Ins., Fasc. 152, 101, tab. gen.

Hallomyia, Kieff.

Spol. Zeyl. VIII, 25 (1912).
Kieff., Gen. Ins., Fasc. 152, 106.
GENOTYPE, *H. iris* Kieff., by original designation.

iris Kieff., Spol. Zeyl. VIII, 25, ♀, figs. 1, 2 (1912).
Peradeniya, 17 and 19-v-10. Three *paratypes* in Indian Museum.

Sect. DIPLOSARIAE.

Eumerosema, Kieff.

Marcellia, XII, 42 (1913).
Kieff., Gen. Ins., Fasc. 152, 140.
GENOTYPE, *E. dispar* Kieff., by original designation.

dispar Kieff., Marcellia, XII, 42, ♂ ♀ (1913).
Formosa. *Type* in Entomological Museum, Berlin-Dahlem.

Chrysodiplosis, Kieff.

Trans. Linn. Soc. Lond. XIV, 318 (1911).
Kieff., Gen. Ins., Fasc. 152, 145.

GENOTYPE, *C. pulchricornis* Kieff., sp. nov., *loc. cit.*, by present designation.

squamatipes Kieff., Spol. Zeyl VIII, 28, ♂ (1912).
Peradeniya, 20-v-10. *Type* in Indian Museum, unique.

Coelodiplosis, Kieff.

Marcellia XII, 43 (1913).
Kieff., Gen. Ins., Fasc. 152, 141.
GENOTYPE, *C. magnipennis* Kieff., by original designation.

magnipennis Kieff., Marcellia XII, 43, ♂ ♀ (1913).
Formosa. *Type* in the Entomological Museum, Berlin-Dahlem.

Courteia, Kieff.

Marcellia VIII, 131 (1909).
Kieff., Gen. Ins., Fasc. 152, 153.
GENOTYPE, *C. graminis* Kieff., by original designation.

graminis Kieff., Marcellia VIII, 131, ♀ (1909).
Java. *Type* in Kieffer's collection.

Feltodiplosis, Kieff.

Gen. Ins., Fasc. 152, 154 (1913).
Endaphis, Felt, Ent. News XXII, 128–224 (1911).
GENOTYPE, *F. abdominalis* Felt, by original designation.

hirta Felt, Ent. News XXII, 224 (1911).
Ceylon. *Type* in Kieffer's collection.

Arthrocnodax, Rübs.

Wien. Ent. Zeitg XIV, 189 (1895).
Kieff., Gen. Ins., Fasc. 152, 155.
GENOTYPE, *A. vitis* Rubs., sp. nov.

rutherfordi Felt, Jour. N. Yk. Ent. Soc. XXIII, 180 (1915).
Ceylon.

walkeriana, *id.*, *loc. cit.*, 181 (1915).
Ceylon.

Plutodiplosis, Kieff.

Spol. Zeyl. VIII, 27 (1912).
Kieff., Gen. Ins., Fasc 152, 166.
GENOTYPE, *P. magnifica* Kieff., by original designation.

magnifica Kieff., Spol. Zeyl. VIII, 27, ♀ (1912).
Peradeniya, 15-vii-10. The unique type accidentally destroyed.

Indodiplosis, Felt.

Can. Ent. XLVIII, 403 (1916).
Genotype, *I. mangiferae*, *id.*, *loc. cit.*, sp. nov.

mangiferae Felt, *loc. cit.*, 403, ♂ ♀ (1916).
♂ Bred from galls in mango leaf, Pusa, 13-iii-14, "Case No. 1023"; ♀ from same source, Pusa 26-ix-15 [*T. Ram*], "Case No. 100."

Streptodiplosis, Felt.

Can. Ent. XLVIII, 405 (1916).
Genotype, *S. indica*, *id.*, *loc. cit.*, sp. nov.

indica Felt, *loc. cit.*, 405 ♂ (1916).
Kusti, North Wynaad, S. India, 16-ii [*Bahadur*], on leaves infested by the scale insect *Mytilaspis piperis*, Green.

Dentifibula, Felt.

Bull N. Yk. State Mus. CXXIV, 389 (1908).
Kieff., Gen. Ins., Fasc. 152, 174
Genotype, *Contarinia viburni* Felt, by original designation.

ceylanica Felt, Jour. N. Yk. Ent. Soc. XXIII, 175 (1915).
Ceylon.

obtusilobae, *id.*, *loc. cit.*, 176 (1915).
Ceylon.

Stictodiplosis, Kieff.

Bull. Soc. Ent. Fran. LXIII, 28 (1894).
Kieff., Gen. Ins., Fasc. 152, 183.
Genotype, *S. nubilipennis* Kieff., by original designation.

pulcherrima Kieff., Rec. Ind. Mus. III, 130, fig. 2, wing (*Contarinia*) (1909).
Kurseong [*Haas*]. *Type* in Kieffer's collection.

Procontarinia, Kieff. & Cecconi.

Marcellia V, 135 (1906).
Kieff., Gen. Ins., Fasc. 152, 183.
Genotype, *P. matteiana* Kieff. & Cecconi, by original designation.

matteiana Kieff. & Cecconi, Marcellia, V, 135 ♂ ♀ (1906).
India. *Type* in Kieffer's collection.

Hypodiplosis, Kieff.

Gen. Ins., Fasc. 152, 187 (1913).
Clinodiplosis partim., Kieff. & Leeuwen-Reijnvaan, Marcellia VIII, 129 (1909).
Genotype, *Clinodiplosis paederiae* Kieff. & Leeuwen, by original designation.

paederiae Kieff & Leeuwen, Marcellia, VIII, 129, ♂ ♀ (1909).
Java. *Type* in Kieffer's collection.

Oribremia, Kieff.

Rec. Ind. Mus. IX, 199 (1913).
Kieff., Gen. Ins., Fasc. 152, 194.
Genotype, *O. multifida* Kieff., by original designation.

multifida Kieff., Rec. Ind. Mus. IX, 199, ♂ (1913).
Bhowali, Kumaon, W. Himalayas, 5700 ft. [*Imms*]. *Type* apparently mislaid, *not* in Indian Museum.

Lestodiplosis, Kieff.

Bull. Soc. Ent. Fran. LXIII, 28 (1894).
Kieff., Gen. Ins., Fasc. 152, 195.
Genotype, *L. alternans* Kieff., by his designation.
Coprodiplosis, Kieff., Feuille Jeune Natur. XXIV, 84 (1894).
Genotype, *Diplosis polypori* Lw., by original designation.

ceylanicus Kieff., Spol. Zeyl. VIII, 28, ♀ (1912).
Peradeniya. *Type* in Indian Museum.

Diplecus, Kieff.

Bull. Soc. Hist. Nat. Metz. XXVIII, 55 (1913).
Kieff., Gen. Ins., Fasc. 152, 201.
Genotype, *Coprodiplosis inconspicuus* Kieff., by original designation.

inconspicuus Kieff., Spol. Zeyl. VIII, 29, ♀ (*Coprodiplosis*) (1912).
Peradeniya, 11 and 21-vi-10. No definite *type* set up. Described from five specimens, said by Kieffer to have been taken in May, but the two in the Indian Museum forming part of the set of five are dated June. These become *paratypes*.

Diadiplosis, Felt.

Jour. N. Yk. Ent. Soc. XIX, 54 (1911).
Genotype. *D. coccidivora, id.*, by original designation.

coccidivora Felt, Entom. XLVII, 86 (1914).
Ceylon.

smithii Felt, Jour. N. Yk. Ent. Soc. XXIII, 178 (1915).
Philippine Is.

Dyodiplosis, Rubs.

Zeits. wiss Insektenbiol. VIII, 49 (1912).
Kieff., Gen. Ins., Fasc. 152, 205.
Genotype, *D. arenariae* Rubs., by original designation.

generosi Felt, Jour. N. Yk. Ent. Soc. XXIII, 183 (1915).
Ceylon.

Pseudhormomyia, Kieff.

Synop. d. Cecid. d'Eur. et d'Alg. 57 (1898).
GENOTYPE, *P. granifex* Kieff., sp. nov., *loc. cit.*
Amaurosiphon, Rubs., Zeits. wiss. Insek., VII, 391 (1911).
GENOTYPE, *A. caricis* Rubs., sp. nov., by original designation.

fluviatilis Felt, Ent. News, XXVIII, 74, ♂ ♀ (1917).
Coimbatore, 29-vii-16. From galls on *Panicum fluitans* [*Y. R. Rao*]. "*Type* Cecid. a2777."

cornea Felt, *loc. cit.*, 76, ♂ ♀ (1917).
Coimbatore, 2-viii-16 [*Rao*]. From galls on *Ischaemum ciliare*. "*Type* Cecid. a2778."

Lowiola, Kieff.

Miscell. Ent. V, 5 (1896).
Kieff., Gen. Ins., Fasc. 152, 206.
GENOTYPE, *L. centaureae*, according to Kieffer.

costata Felt, Jour. N. Yk. Ent. Soc. XXIII, 182 (1915).
Ceylon.

Orseoliella, Kieff.

Marcellia XI, 231 (1912).
Kieff., Gen. Ins., Fasc. 152, 152.
GENOTYPE, *O. javanica* Kieff., by original designation.

javanica Kieff., Marcellia VIII, 125, ♂ ♀ (*Orseolia*) (1909).
Java. *Type* in Kieffer's collection.

Cecidomyia, Mg.

Illig. Mag. II, 261 (1803).
Sch., F. Austr. II, 369 *et Auctt.*: Kieff., Gen. Ins., Fasc. 152, 211.
GENOTYPE, *Tipula pini* DeGeer, according to Coquillet, and Kieffer.
Diplosis, Loew, Dipt. Beitr. IV, 20 (1850).
Cryptodiplosis, Kieff., Bull. Soc. Ent. Fran. LXIV, 194 (1895).
GENOTYPE, *Tipula pini*, DeGeer, by original designation.

deferenda Walk., Proc. Linn. Soc. Lond. I, 105, ♀ (1857).
Sarawak. *Type* apparently lost ; not in British Museum.

Pachydiplosis, Kieff.

Bull. Soc. Hist. Nat. Metz, XXVIII, 108 (1913).
Kieff., Gen. Ins., Fasc. 152, 224.
GENOTYPE, *P. apricans* Kieff., by original designation.

oryzae Wood-Mason, Amer. Naturalist, p. 149 (*Cecidomvia*) (1881): Y. R. Rao, J. Asiat. Soc. Beng. n.s. XIII, p. clxxxiv (1917).

Bengal; living in "paddy," causing the disease known as "silvershoots." *Type* untraceable, not in Indian Museum.

graminicola Kieff., Marcellia, VIII, 127, ♂ ♀ (*Clinodiplosis*) (1909). Java. *Type* in Kieffer's collection.

ceylanica Kieff., Spol. Zeyl. VIII, 26, ♀, fig. 3, tip of antenna (*Clinodiplosis*) (1912).

Peradeniya, 13-v-10; 2, 9, and 25-vi-10; Pusa, 19-vi-11, at light [*Howlett*]. *Paratypes* in Indian Museum; no type erected.

Clinodiplosis, Kieff.

Feuille Jeunes Natur. Paris, XXIV, 121 (1894).
Kieff., Gen. Ins., Fasc. 152, 237.
GENOTYPE, *C. cilicrus* Kieff., by original designation.

No species in the adult stage is recorded from the Orient, but Kieffer has described the gall and the larva of three, *artemisiarum*, *cellularis* and *nodifex*, in Marcellia VII, from the East Indies.

Androdiplosis, Felt.[1]

Jour. N. Yk. Ent. Soc. XXIII, 182 (1915).
GENOTYPE, *F coccidivora*, *id.*, *loc cit.*, sp. nov.

coccidivora Felt, *loc. cit.*, 183 (1915).
Ceylon.

Mycodiplosis, Rubs.

Ent. Nachr. XXI, 186 (1895).
GENOTYPE, *Diplosis coniophaga* Winn., by original designation.

simulacri Felt, Jour. N. Yk. Ent. Soc. XXIII, 177 (1915).
Philippine Is.

Xiphodiplosis, Felt.[1]

Jour. N. Yk. Ent. Soc. XXIII, 180 (1915).
GENOTYPE, *X. fulva*, *id.*, *loc. cit.*, sp. nov.

fulva Felt, *loc. cit.*, 180 (1915).
Ceylon.

Sect. PORRICONDYLARIAE.

Kieff., Gen. Ins., Fasc. 152, 258, tab. gen.

Dicroneurus, Kieff.

Ent. Nach. XXI, 122 (1895).
Kieff., Gen. Ins., Fasc. 152, 270.

[1] The work in which these genera are described is inaccessible in India, and it is therefore impossible to place them in their exact systematic position.

GENOTYPE, *Epidosis lineatus* Kieff., by original designation.

indicus Kieff., Rec. Ind. Mus. IX, 200, ♂ (*Epidosis*) (1913).
Kalighat, 6000 ft. *Type*, apparently mislaid, not in Indian Museum.

Misocosmus, Kieff.

Bull. Soc. Hist. Nat. Metz, XXVIII, 55 (1913).
Kieff., Gen. Ins., Fasc. 152, 276.
GENOTYPE, *Epidosis ceylanicus* Kieff., by original designation.

ceylanicus Kieff., Spol. Zeyl. VIII, 29, ♀ (*Epidosis*) (1912).
Peradeniya, 19-v-10. *Type* in Indian Museum.

Colpodia, Winn.

Linn. Ent. VIII, 188 (1853).
Kieff., Gen. Ins., Fasc. 152, 268.
GENOTYPE, *C. angustipennis* Winn., sp. nov., *loc. cit.*

fletcheri Felt, Can. Ent. XLVIII, 400, ♂ (1916).
Pusa, a unique ♂, 1-i-16. [*Bahadur*]. "*Type* Cecid. 1696." No location of type is stated.

Epidosis, Lw.

Dipt. Beit. IV, 21 (1850).
GENOTYPE, *E. fragilis* Lw., sp. nov., *loc. cit.*, p. 38, the 1st species by present designation.

indicus Kieff., Rec. Ind. Mus., IX, 200 (1913).
India.

Subfamily *LESTREMIINAE*.[1]

Peromyia, Kieff.

Bull. Soc. Ent. Fran. 63 (1894).
Kieff., Gen. Ins., Fasc. 152, 292.
GENOTYPE, *P. leveillei* Kieff., by original designation.

bengalensis Kieff., Ann. Soc. Sci. Brux. XXIX, 158, ♂, fig. 4, wing (1905).
Bengal. *Type* in Kieffer's collection.

Lestremia, Macq.

Recueil Soc. Agric. Lille, 173 (1826).
Sch., F. Austr. II, 413 *et Auctt.*
Kieff., Gen. Ins., Fasc. 152, 307.
GENOTYPE, *Lestremia cinerea* Mcq., according to Coquillett.

Cecidogona, Lw., Stett. Ent. Zeit. V, 324 (1844).
GENOTYPE, *Lestremia carnea* Lw., by original designation.

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[1] For table of genera, see Kieff., Gen. Ins., Fasc. 152, 305.

Furcinerva, Rond., Nuovi Ann. Soc. Nat. Bologna (2) VI, 369 (1846).[1]
Mimosciara, *id.*, Mem. Ia. ditt. Ital. 25 (1840).
Molobraea, *id.*, Atti. Soc. Ital. Sci. Nat. Milano, II, 287 (1860).
Yposataea, *id.*, Dipt. Ital. Prod. I, 198 (1856).

indica Kieff., Rec. Ind. Mus. III, 129, fig. 1, wing (1909).
Calcutta [*Annandale*]; Kurseong, 26-iii-10 [Gravely].

ceylanica Kieff., Spol. Zeyl. VIII, 29, ♀ (1912).
Peradeniya, 13-v-10, at light. *Type* in Indian Museum, unique.

Family MYCETOPHILIDAE.

Subfamily *SCIARINAE*.

Sciara, Mg.

Illig. Mag. II, 263 (1803).
Sch., Fauna Austr. II, 417: Auctt. var.
Brun., Fauna Brit. Ind., Dipt., 120, figs. (p. 121), pl. ii, 15—17, wings.
GENOTYPE, *S. thomae* L.[2]
Molobrus, Latr., Hist. Nat. Crust. Ins. XIV, 288 (1805).
GENOTYPE, *Tipula thomae* L., as the "Tipule de Thomas."
Planetes, Walk., Ent. Month. Mag. III, 178 (1836).
GENOTYPE, *P. extremus*, *id.*, *loc. cit.*, sp. nov.
Planatella, Westw., Synop. gen. Brit. Ins., 126 (1840).

indica Walk.,[3] Ins. Saunds. Dipt. V, 419 (1856).
Brun., Fauna Brit. Ind. I, 130, ♀.
East India; Darjiling, 5-viii-09 [*Paiva*]; Kurseong, 13—16-vii-07; common, 14-viii-09 [*Paiva*]; Siliguri, 18—20-vii-07; Phagu, 21-v-16; Bhim Tal, 19—22-ix-06 [*Annandale*]; Senchal, v-13. *Type* in British Museum in good condition.

pusilla Dol., Nat. Tijd. Ned. Ind. X, 407, pl. iv, 4 (*Scatopse*) (1856).
Java. *Type*, location unknown, apparently lost.

laticornis Walk., Proc. Linn. Soc. Lond. I, 105, ♂ ♀ (1857).
Sarawak. *Type* in British Museum, damaged but recognizable.

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[1] *Furcinerva* was founded on the union of *Zygoneura* Mg., *Lestremia* Macq., *Mimosciara* Rond. and *Catocha* Hall. In his Prodrome vol. I, Rondani admits *Catocha* as valid, ignores *Furcinerva* and erects *Yposataea* for the three other genera without any type species. Coquillett proposed *Mimosciara molobrina* Rond., which was the genotype of this latter genus.

[2] *S. thomae* L., the common European species, was recorded from Sumatra by Van der Wulp (Dipt. Sum. Exped. 7, and Cat. Dipt. S. Asia, 1), but in the latter work he says that Rübsaamen (Berl. Ent Zeits. XXXIX, 32) doubts the identity of the species. I therefore refrain from including it in the present catalogue.

[3] *S. indica* Walk. is a good and conspicuous species, but his others are mostly unrecognizable from the descriptions, except perhaps *filipes*.

solita Walk., *loc. cit.*, I, 105, ♀ (1857).
Sarawak. *Type* in British Museum, in fair condition.

femoralis Dol., Nat. Tijd. Ned. Ind. XVII, 78 (1858).
Amboina. *Type*, location unknown, apparently lost.

selecta Walk., Proc. Linn. Soc. Lond. III, 77, ♂ (1859).
Aroe. *Type* in British Museum, in good condition.

longipes, *id.*, *loc. cit.*, V, 263 (1861).
Tondano. *Type* in British Museum, in fair condition (abdomen missing).

ponderosa, *id.*, *loc. cit.*, VII, 230, ♀ (1864).
North Ceram ; Mimika River, Dutch Papua, viii-1910. *Type* in British Museum, in good condition.

varipes, *id.*, *loc. cit.*, VIII, 102, ♀ (1865).
Papua. *Type* in British Museum (no abdomen).

filipes, *id.*, *loc. cit.*, VIII, 102 (1865).
Papua. *Type* in British Museum, in fair condition but without antennae.

Both Walker and Van der Wulp state that this species represents a new genus, but the type (and only) specimen is too damaged to diagnose its characters.

rufithorax Wulp, Mid. Sum. Exped., Dipt. 6, pl. i, 1, full insect (1881) : Rübs., Berl. Ent. Zeits. XXXIX, 39 : Meij., Tijd. v Ent. L. 200, pl. v, 1 : Brun., Fauna Brit. Ind , Dipt. I, 128, ♂ ♀ , pl. iii, 15, ♂ genitalia.

Probably widely distributed in the East. Sumatra, Java (var. locs.), Ceylon, India (many localities, *vide* Brun., Fauna), Assam, Burma, and probably South China and other parts. Recorded during the greater part of the year. Occurs as far north as Simla, x-08 [*Howlett*]. *Type* in Leyden Museum, *cotype* in Amsterdam Museum.

sulcata Wulp, Tijd. v. Ent. XXX, 177, pl. xi, 12 (1887).
Java. *Type* probably lost, originally in Van der Wulp's collection.

pruinosa Rübs., Berl. Ent. Zeits. XXXIX, 33, pl. i, 2 (1894).
Borneo. *Type* in Berlin Museum.

rotunda, *id.*, *loc. cit.*, 34 (1894).
Himalayas. *Type* in Berlin Museum.

singhalensis, *id.*, *loc. cit.*, 35 (1894).
Ceylon. *Type* in Berlin Museum.

trilineata Brun., Fauna Brit. Ind., 126, ♀ (1912).
Darjiling, 8-viii-09, *type* ; 6-viii-09 [both *Paiva*]. *Type* in Indian Museum.

trifasciata, *id.*, *loc. cit.*, 126, ♀ (1912).
Darjiling, 10—16-x-05 [*Brunetti*]. *Type*, unique, in Brunetti collection.

opposita, *id.*, *loc. cit.*, 127, ♂ (1912).
Kurseong, 3-vii-08. *Type*, unique, in Indian Museum.

distinguenda, *id.*, *loc. cit.*, 127, ♂ (1912).
Darjiling (7000 ft.), 12-viii 09 [*Jenkins*]. *Type*, unique, in Indian Museum.

rufoabdominalis, *id.*, *loc. cit.*, 129, ♀ (1912).
Ukhrul, Manipur (6400 ft.) [*Pettigrew*]. *Type*, unique, in Indian Museum.

luteiventris, *id.*, *loc. cit.*, 129, ♀ (1912).
Phagu, 12-v-09 [*Annandale*]. *Type*, unique, in Indian Museum.

flammiventris, *id.*, *loc. cit.*, 129, ♀ (1912).
Darjiling, 6-viii-09 [*Paiva*]. *Type*, unique, in Indian Museum.

flavofemorata, *id.*, *loc. cit.*, 130, ♂ (1912).
Kurseong, 8-vii-08; Simla, x-08 [*Howlett*]. *Type* in Indian Museum.

nigripennis, *id.*, *loc. cit.*, 131, ♂ ♀ (1912).
Darjiling, 26-v-10, *type* ♂; 29-ix-08; 28-v-10 [all *Brunetti*]; Kurseong, 13-viii-09 [*Paiva*]; Bhim Tal, 19—22-ix-06 [*Annandale*]; Simla, x-08 [*Howlett*]; Pashok, Sikkim (2000 ft.), 5-ix-09; Ukhrul, Manipur; Shillong; Pattipola, Ceylon. *Types* in Indian Museum.

Some ♀ ♀ taken by Mr. C. W. Beebe at Kuching, Sarawak, 23-vi-10 and 4-vii-10 are probably a small variety of this species.

diversipes, *id.*, *loc. cit.*, 131, ♂ ♀ (1912).
Darjiling, 10-viii-09 [*Paiva*]; Ghoom (above Darjiling, 7500 ft.), 18-ix-08; Kurseong, 13—16-vii-07; Siliguri, 18—25-vii-07. *Type* ♂ ♀ in Indian Museum.

fratercula, *id.*, *loc. cit.*, 132, ♀ (1912).
Kurseong, 7-ix-09 [*Annandale*]; Bhim Tal, 22—27-ix-06 [*Annandale*]. *Type* in Indian Museum.

exacta, *id.*, *loc. cit.*, 132, ♀ (1912).
Darjiling, 4—7-viii-09, *type* [*Paiva*]; Kurseong, 7-ix-09; 4—8-vii-08; Ghoom (above Darjiling), 19-ix-08; Siliguri, 18—20-vii-07; Bhowali, Kumaon, vii-09 [*Imms*]; Ukhrul, Manipur; all in the Indian Museum. In my collection from Darjiling, 10—16-x-05 and Shanghai, 9-v-06 [both *Brunetti*], and from Ohiya, Ceylon [*Green*]. *Type* in Indian Museum.

longinervis, *id.*, *loc. cit.*, 133, ♀ (1912).
Siliguri, 18—20-vii-07, *type*; Kurseong, x-1910 [*D'Abreu*]; in the Pusa collection from Mussoorie, viii-1906. *Type* in Indian Museum.

flavicollis, *id.*, *loc. cit.*, 134, ♂ ♀ (1912).
Siliguri, 18—20-vii-07, *type* ♂; Darjiling, 1-x-08, *type* ♀ [*Brunetti*]; 26—29-vi-10; Kurseong, 29-vi-10 [both *Annandale*]. *Types* in Indian Museum.

orientalis, *id.*, *loc. cit.*, 135, ♂ ♀ (1912).

Darjiling; Kurseong; Siliguri; Bhim Tal; Mandalay; Ukhrul; Dibrugarh, 17—19-xi-11; Rotung, N.E. Ind. Frontier, 24—25-xii-11 [both *Kemp*]; Calcutta (common Jan. to May and July to Sept.); Lucknow; Bijnor District; Ganges Delta; Travancore State (var. locs.); Ceylon; Dawna Hills; Lower Burma. Occurs, speaking generally, nearly all the year round in many localities. *Types* in Indian Museum, *cotypes* in my collection.

fascipennis, *id.*, *loc. cit.*, 136, ♀ (1912).
Darjiling, xi-1910 [*D'Abreu*]. *Type*, unique, in Indian Museum.

sexsetosa, *id.*, *loc. cit.*, 137 ♀ (1912).
Darjiling, 20-ix-08, *type* [*Brunetti*]; 6-viii-09 [*Paiva*]; Pashok, Sikkim (2000 ft.), 5-ix-09 *Type* in Indian Museum.

quadrisetosa, *id.*, *loc. cit.*, 137, ♂ (1912).
Darjiling, 6-viii-09 [*Paiva*]. *Type* in Indian Museum.

pallescens, *id.*, *loc. cit.*, 137 (sex uncertain) (1912).
Khayon (or "Farm") caves, 9 miles from Moulmein, Tenasserim, 7-iii-08, taken in the darkest part of the cavern by Dr. Annandale, in company with *Crysithyris speloca*, the only known moth adapted for a cavernicolous existence. *Type*, unique, in Indian Museum.

fulvescens, *id.*, *loc. cit.*, 138, ♀ (1912).
Rajshai, East Bengal, 1—6-ii-07 [*Annandale*]. *Type*, unique, in Indian Museum, possibly identical with *pallescens*.

setilineata, *id.*, *loc. cit.*, 138, ♂ ♀ (1912).
Simla, 10-v-09, *type* ♂ [*Annandale*]; Darjiling, 6-viii-09, *type* ♀ [*Paiva*]. *Types* in Indian Museum.

latelineata, *id.*, *loc. cit.*, 139, ♂ (1912).
Dawna Hills, Tenasserim (on western slopes, 2000—3000 ft.), 2—3-iii-08 [*Annandale*]. *Type*, unique, in Indian Museum.

radicum, *id.*, *loc. cit.*, 139, ♂ ♀ (1912).
Calcutta, 21-i-10 to 24-ii-10 [*Annandale*]. *Types* in Indian Museum; *cotypes* in my collection.

The larva lives on lily bulbs and kindred plants.

impostor, *id.*, *loc. cit.*, 140, ♂ (1912).
Darjiling, 1-x-08, *type*, 2-x-08, 10—16-x-05 [all *Brunetti*]. *Type* in Indian Museum, *cotype* in my collection

segmenticornis, *id.*, *loc cit.*, 141, ♂ (1912).
Bindukhera (Naini Tal Distr, plains), 13-iv-09. *Type* in Indian Museum, unique.

compacta, *id.*, *loc. cit.*, 141, ♀ (1912).
Gangtok, Sikkim (6150 ft.), 8-ix-09, *type*; Butal, Nepal, 12-ii-08. *Type* in Indian Museum.

inconspicua, *id.*, *loc. cit.*, 142, ♀ (1912).
Sylhet, 14-i-05 [*Hall*]. *Type*, unique, in Indian Museum.

hirtilineata, *id.*, *loc. cit.*, 142, ♂ ♀ (1912).

Phagu, 12-v-09, *type* ♂, 12-v-09; Simla, 10-v-09; Darjiling, 6-viii-09; Kurseong, 4-vii-08 [*Annandale* and others]. *Types* in Indian Museum.

niveiapicalis, *id.*, *loc. cit.*, 143, ♀ (1912).
Ukhrul, Manipur (6400 ft.) [*Pettigrew*]. *Type* in Indian Museum.

longipennis, *id.*, *loc. cit.*, 143, ♂ ♀ (1912).
Below Simla, 6-v-10, *type* ♂ [*Annandale*]; Darjiling, 25-v-10, *type* ♀ [*Brunetti*]; Kurseong, 4-vii-08; 26—27-vi-10 [*Annandale*]; Tonglu, Darjiling (10,000 ft.), 22-iv-10 [*Beebe*]. *Type* in Indian Museum.

flaviseta, *id.*, *loc. cit.*, 144, ♀ (1912).
Simla, 10-v-09 [*Annandale*]. *Type*, unique, in Indian Museum.

nitidithorax, *id.*, *loc. cit.*, 145, ♂ (1912).
Kalighat (Garhwal Distr., 6000 ft., India), 4-vi-10 [*Imms*]. *Type*, unique, in Indian Museum.

longitudinalis, *id.*, *loc. cit.*, 145, ♂ ♀ (1912).
Kurseong, 8-vii-08, *type* ♂ [*Annandale*]; Darjiling, 28-v-10, *type* ♀ [*Brunetti*]; Tonglu, Darjiling, 10,000 ft., 22-iv-10 [*Beebe*]. *Types* in Indian Museum.

ruficoxa, *id.*, *loc. cit.*, 146, ♀ (1912).
Kurseong, 25-vi-10 [*Annandale*]. *Type*, unique, in Indian Museum.

flavipleura, *id.*, *loc. cit.*, 146, ♂ ♀ (1912).
Darjiling, 2-x-08, *type* ♂ [*Brunetti*]; 6-viii-09, *type* ♀ [*Paiva*]; Kurseong, 3-ix-09 [*Annandale*]. *Types* in Indian Museum.

evanescens, *id.*, *loc. cit.*, 147, ♂ ♀ (1912).
Simla, 9-v-09, *type* ♂; Calcutta, 25-ii-09 [both *Annandale*]; Darjiling, 6-viii-09 [*Paiva*]; Peradeniya, 14-vii-10, 7-viii-10. *Types* in Indian Museum.

parallela, *id.*, *loc. cit.*, 147, ♂ ♀ (1912).
Simla, 9-v-09, *type* ♂ [*Annandale*]; Darjiling, 2-x-08, *type* ♀, and 26-v-10 [*Brunetti*]. *Types* in Indian Museum.

turrita de Meij., Bijd. tot Dierk, XIX, 45, ♀, pl. i, 1, head, 2, wing, (1913).
Ceram, ii. *Type*, unique, in (?) Amsterdam Museum.

heteroptera de Meij., Tijd. v. Ent. LVI, 318, ♂ ♀; pl. xv, 1, wing; 1*a*, genitalia ♂ (1913).
Gedeh crater, Java [*Roepke*]. *Type* in Amsterdam Museum.

fuscolimbata Ender., Arch. Naturg. LXXVII, Supp. 3, 150 [*Lycoria*) (1912).
Sumatra.

sumatrana, *id.*, *loc. cit.*, 151 (*Lycoria*) (1912).

bispinosa Pettey, Phil. J. Sci. XIII, D, 215, ♂, pl. i, 2, ♂ clasper, 4, wing (1918).

Los Banos, Luzon, 3-iii-17. Unique *type* in Cornell University collection.

uichancoi, *id., loc. cit.*, 215, ♂ ♀, pl. i, 1, ♂ clasper, 3, wing (1918). Mt. Maquiling, Luzon, 28-viii-17. *Types* in Cornell University collection.

Phorodonta, Coq.

Proc. U.S. Mus. XXXVIII, 589, nom. nov. for *Odontonyx*, Rübs., preocc. (1910).

Odontonyx, Rübs., Berl. Ent. Zeits. XXXIX, 19 and 25 (1894).

GENOTYPE, *O. fruhstorferi* Rübs., by original designation.

Odontonyx preoccupied by Stephens in Coleoptera (1828), and used again by Guerin in 1843.

fruhstorferi Rübs., Berl. Ent. Zeits. XXXIX, 25, fig. 3, pl. iii, 13, 23 (1894).
Java. *Type* in Berlin Museum.

Psilomegalosphys, Enderl.

Archiv f. Naturges. LXXVII, 137 (1911).

GENOTYPE, *P. xanthogaster* Enderl., by original designation.

xanthogaster Enderl., *loc. cit*, 137, ♀, pl. i, 6, wing (1911).
Sumatra. *Type* in Stettin Zoolog. Museum.

Trichomegalosphys, Enderl.

Archiv f. Naturges. LXXVII, 136 (1911).

GENOTYPE, *T. funesta* Enderl., by original designation.

funesta Enderl., *loc. cit*, 136, ♀ (1911).
Soekaranda (Sumatra). *Type* in Stettin Zoolog. Museum.

Scythropochroa, Enderl.

Archiv f. Naturges. LXXVII, 138 (1911).

GENOTYPE, *S. latefurcata* Enderl., by original designation.

velata Enderl., *loc. cit.*, 139, ♀ (1911).
Soekaranda (Sumatra). *Type*, unique, in Stettin Zoological Museum.

Zygoneura, Mg.

Syst. Besch. VI, 304 (1830).

GENOTYPE, *Z. sciarina* Mg.

remota deMeij., Nova Guinea Res. IX, 305, ♂ (1913).
Riverkamp, ii. *Type* in Amsterdam Museum.

Subfamily *MACROCERINAE.*

Macrocera, Mg.

Illig Mag. II, 261 (1803).

Sch., F. Austr. II, 430 : *Auctt. var.* : Johan., Gen. Ins., Fasc. 93, 28 : Brun., Fauna Brit. Ind., 49. Genotype, *M. lutea* Mg., by designation of Curtis, Brit. Entom., 637 (1837).

Tipula longicornis Mg., has been proposed as the type-species, but the identification seems doubtful.

Geneja, Lioy, Atti Istit. Ven. (3) IX, 229 (1863).[1] Genotype, *Macrocera fasciata* Mg., by Coquillett's designation.

? *Macroura*, Berendt, Organ. Reste Bernstein I, 51, nom. nud. (1845).

ornata Brun., Fauna Brit. Ind., 51, ♂ ♀, pl. i, 1, wing; pl. iii, ♂ genitalia (1912).

Darjiling, 28-v-10, *type* ♂ [*Brunetti*]; Kurseong, 15-viii-09, *type* ♀ [*Jenkins*]. *Types* in Indian Museum.

alternata, *id.*, *loc. cit.*, 52, ♂ ♀, pl. i, 2, wing (1912): *Id.*, Rec. Ind. Mus. XIII, 61.

Naini Tal, *type* ♂, 10-vi-09; Mussoorie, vi-09, *type* ♀ [*Brunetti*]; Simla, x-08 [*Howlett*]. *Type* ♂ in Indian Museum, *type* ♀ in my collection.

flavicosta, *id*, *loc. cit.*, 53, ♀, pl. i, 3, wing (1912).

Exact locality uncertain, probably India, but certainly the Orient. *Type* in my collection.

brunnea, *id.*, *loc. cit.*, 53, ♀, pl. i, 5, wing (1912).

Phagu, 12-v-09 [*Annandale*]. *Type* in Indian Museum.

elegans, *id.*, *loc. cit.*, 54, ♂, pl. i, 4, wing (1912).

Darjiling, 26-v-10 [*Brunetti*]. *Type* in Indian Museum, unique.

inconspicua, *id.*, *loc. cit.*, 54, ♂ (1912).

Naini Tal Distr., 28-v-09; Simla, x-08 [*Howlett*]. *Type* in Indian Museum, unique.

ferruginea, *id.*, *loc. cit.*, 55, ♀ (1912).

Bhim Tal, 22—27-ix-06 [*Annandale*]. *Type* in Indian Museum, unique.

fryeri Edw., Ann. Mag. Nat. Hist. (8) XII, 200, ♂ (1913).

Peradeniya, ix-1911.

Subfamily *CEROPLATINAE.*

Ceroplatus, Bosc.

Act. Soc. Hist. Nat. Paris I, i, 42 (1792).

Sch., F. Austr. II, 433 : *Auctt. var.* : Johan., Gen. Ins., Fasc. 93, 18 : Brun., Fauna. Brit. Ind., 56.

[1] A *nom. nov.* for *Macrocera* Mg., under the plea of the latter being preoccupied by Spinola in Hymenoptera. I cannot trace any such preoccupation.

GENOTYPE, *Tipula lineata* F., designated by Rondani as *Platyura laticornis* Mg.

quadripunctatus Brun., Fauna Brit. Ind. 57, ♀, pl. i, 6, wing ; pl. iii, 2, abdomen (1912).

Calcutta, 27-vii-09 [*Annandale*]. *Type*, unique, in Ind. Mus.

If *Ceratchon* Rond., Dipt. Ital. Prod. I, 191 (1856), is admitted as generically distinct from *Ceroplatus*, this species will come in it.

Rhynchoplatyura, de Meij.

Tijd. v. Ent. LVIII, Supp. 3 (1915).

GENOTYPE, *R. longirostris*, *id.*, sp. nov., by original designation.

longirostris de Meij., *loc. cit.*, 3 (1915).

Simalur Is., Sumatra.

Platyura, Mg.

Illig. Mag. II, 264 (no species) (1803).

Mg., Klass, 101 (1804).

Sch., F. Aust. II, 435 : *Auctt.* : Johan., Gen. Ins., Fasc. 93, 20 : Brun., Fauna Brit. Ind., 58.

GENOTYPE, *Platyura fasciata* Mg., by Zetterstedt's designation.

Orfelia, A. Costa, Il Giambatt. Vico, II, 448 (1857).

GENOTYPE, unknown to present author.

Isoneuromyia, Brun , Fauna Brit. Ind., 66 (1912).[1]

GENOTYPE, *I. annandalei*, *id.*, sp. nov., *loc. cit.*

venusta Walk., Ins. Saund. Dipt. pt V, 421 (1856)

Brun., Fauna Brit. Ind., 63, ♀.

Bareilly, 15—22-iii-07 ; Pusa, 16-iv-07, iv-08, v-07 ; Chapra, Bengal ; Chittagong, 14-vii-08 [*Hall*]. *Type*, location unknown.

grandis Brun., Fauna Brit. Ind., 60, ♂ ♀, pl. i, 7, wing (1912).

Mussoorie, 22-vi-05, *type* ♂ ♀, *in cop.*, 26-vi-05 [both *Brunetti*]. *Types* in my collection.

suffusinervis, *id.*, *loc. cit.*, 60, ♂ ♀, pl. i, 9, wing (1912).

Sylhet, 10-iv-05, *type* ♂ ♀, *in cop.* [*Hall*]. *Types*, unique, in Indian Museum.

apicipennis, *id.*, *loc. cit.*, 61, ♀, pl. i, 8, wing, pl. iii, 4, head (1912).

Naini Tal, 2-vi-09. *Type*, unique, in Indian Museum.

affinis, *id.*, *loc. cit.*, 62, ♀ (1912).

Darjiling, 25-v-10 [*Brunetti*]. *Type*, unique, in Ind. Mus.

flaviventris, *id.*, *loc. cit.*, 62, ♀ (1912).

Darjiling, 23-ix-08 [*Brunetti*]. *Type*, unique, in Ind. Mus.

vicina, *id.*, *loc. cit.*, 63, ♀ (1912).

Naini Tal, 3-vi-09. *Type* in Indian Museum.

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[1] I have accepted Edwards' opinion (in litt.) as to the synonymy ; Rec. Ind Mus. XIII, 61.

octosegmentata, *id.*, *loc. cit*, 64, ♂ (1912).
Allahabad, 9-ix-09 [*Imms*]. *Type*, unique, in Ind. Mus.

ruficornis, *id.*, *loc. cit.*, 64, ♀ (1912).
Sylhet, 2-ii-45, 30-ii-04; Naini Tal, 10-vi-09. *Type* in Indian Museum.

indistincta, *id.*, *loc. cit.*, 65, ♂ (1912).
Kurseong, 20-vi-10 [*Annandale*] *Type*, unique, in Ind. Mus.

longifurcata, *id.*, *loc. cit.*, 65, ♂ ♀ (1912).
Kurseong, 24—26-iii-10 [*Annandale*]. *Types* in Ind. Mus.

funerea, *id.*, *loc. cit.*, 65, ♀ (1912).
Gangtok, 6150 ft., Sikkim, 9-ix-09. *Type*, unique, in Indian Museum.

flavomarginata, *id.*, *loc. cit.*, 66, ♂ (1912).
Naini Tal, 3-vi-09. *Type*, unique, in Indian Museum.

fumipes, *id.*, *loc. cit.*, 66, ♂ (1912).
Peradeniya, 22-vii-10. *Type*, unique, in Indian Museum.

annandalei Brun., *loc. cit.*, 67, ♀, pl. iii, 5, full insect (*Isoneuromyia*) (1912).
Sylhet, 27-v-05, *type* [*Hall*]; Kandy, v and viii-09 [*Green*]; Cochin State, 28—29-xi-14 [*Gravely*]. *Type* in Indian Museum, *cotypes* in my collection.

rufescens, *id.*, *loc. cit.*, app. 559, ♀ (*Isoneuromyia*) (1912).
Simla, 20-vii-11 [*Annandale*]. *Type*, unique, in Indian Museum.

limbata, *nom. nov*, Brun., Rec. Ind. Mus. XIII, 61 (1917).
P. marginata, Brun., *loc. cit.*, 62, ♂ ♀, pl. iii, 3, genitalia ♂ (1912), preocc. Mg.
Naini Tal, 3 and 10-vi-09. *Types* in Indian Museum.

Subfamily *SCIOPHILINAE*.[1]

Sciophila, Mg.

Syst. Besch. I, 245 (1818).
Sch., F. Austr. II, 441: *Auctt. var.*: Johan., Gen. Ins., Fasc. 93, 36: Brun., Fauna Brit. Ind., 68.
GENOTYPE, *S. hirta* Mg., designated by Curtis, Brit. Ent. 641 (1837).
Lasiosoma, Winn., Verh. z.b. Ges. Wien XIII, 748 (1863).
GENOTYPE, *Sciophila pilosa* Mg., by Coquillett's designation.

bicolor Brun., Fauna Brit. Ind., 70, ♀, pl. i, 10, wing (1912).
Darjiling, 7—8-viii-09, *type* [*Paiva*]; 28-v-10 [*Brunetti*]. *Type* in Indian Museum.

[1] For table of genera see Kieff., Gen. Ins., Fasc. 93, 31.

Mycomyia, Rond.

Dipt. Ital. Prod. I, 194 (*Mycomya*)(1856).
Johan., Gen. Ins., Fasc. 93, 45: Brun., Fauna Brit. Ind., 70.
GENOTYPE, *M. marginata* Mg., designated by Rondani, Dipt. Ital. Prod. I.
Sciophila, Mg., pt.
Sciophila, Winn., Verh. z.b. Ges. Wien XIII, 707 (1863).
GENOTYPE, apparently no species ever selected.
? *Sciobia*, Lw., Bernst. u. Bernst. Fauna, 33 (1850).
? *Cnephoeophila*, Phil., Verh. z.b. Ges. Wien XV, 618 (1869).

flaviventris Brun., Fauna Brit. Ind., 72, ♂ ♀ (1912).
Kurseong, 3-vii-08, *type* ♂ [*Annandale*]; Ohiya, Ceylon, ii-07, *type* ♀ [*Green*]. *Type* ♂ in Indian Museum, *type* ♀ in my collection.

bifascipennis, *id., loc. cit.*, 72, ♂, pl. iii, 6, ♂ genitalia (1912).
Brun., Rec. Ind. Mus. XIII, 61, note.
Bhowali, 5700 ft., vii-09, *type* [*Imms*]; Simla, x-08 [*Howlett*]; Maskeliya, Ceylon [*Green*]. *Type* in Indian Museum, *cotype* in my collection.

basalis Brun., Fauna Brit. Ind., 73, ♂, pl. i, 13, wing (1912).
Bhowali, 5700 ft., vii-09 [*Imms*]. *Type* in Indian Museum.
The abdomen of the unique type has since been lost.

tinctipennis, *id., loc. cit.*, 74, pl. i, 11, wing (1912).
Kurseong, 3-vii-08 [*Annandale*]. *Type*, unique, sex uncertain, in Indian Museum.

ferruginea, *id., loc. cit.*, 74, ♂ ♀, pl. i, 12, wing (1912).
Kurseong, 3-vii-08, *type* ♂ [*Annandale*]; Darjiling, 29-v-10, *type* ♀ [*Brunetti*]; Calcutta, 11-ii-90; Peradeniya, xii [*Gravely*]. *Types* in Indian Museum.

trilineata, *id., loc. cit.*, 75, ♂ (1912).
Simla, 10-v-09 [*Annandale*]; x-11, sweeping near the Dhobi Ghat [*Howlett*). *Type* in Indian Museum.

indefinita, *id., loc. cit.*, 76, ♂, and ? ♀ (1912).
Brun., Rec. Ind. Mus., XIII, 62.
Darjiling, 29-v-10 [*Brunetti*]; Simla, x-11. *Type* and second specimen in Indian Museum.

indica, *id., loc. cit.*, 76, ♂ ♀ (1912).
Simla and Phagu, 10—12-v-09 [*Annandale*]. *Type* in Indian Museum.

flavithorax, *id., loc. cit.*, 77, ♂ (1912).
Darjiling, 25-v-10 [*Annandale*]. *Type*, unique, in Ind. Mus.

curvilinea, *id., loc. cit.*, 77, ♂ (1912).
Tonglu, Darjiling Distr., 10,000 ft., 22-iv-10, *type* [*Beebe*]; Darjiling, 29-viii-10 [*Brunetti*]. *Type* in Indian Museum.

Polylepta, Winn.

Verh. z.b. Ges. Wien XIII, 745 (1863).
Sch., F. Austr. II, 447: *Auctt. var.*: Johan., Gen. Ins., Fasc. 93, 43: Brun., Fauna Brit. Ind, 78, pl. i, 14.
GENOTYPE, *P. undulata* Winn., by designation of Johannsen (Gen. Ins., Fasc. 93, 43, 1909).

dubiosa Brun., Fauna Brit. Ind., 79, ♂ (1912).
Mundali, Dehra Dun, 9000 ft., 10-v-10 [*Beebe*]. *Type*, unique, in Indian Museum.

incerta, *id.*, *loc. cit.*, 79 (1912).
Mundali, 12-v-10 [*Beebe*]. *Type*, a unique specimen, apparently a ♀, in Indian Museum.

Neoempheria, Ost. Sack.[1]

Cat. N. Amer. Dipt., Ed. II, 9 and 16, *nom. nov.* (1878).
Empheria, Winn., Verh. z.b. Ges. Wien XIII, 738 (1863), preocc. Hagen 1856 in Psocidae; Sch., F. Austr. II, 446.
GENOTYPE, *Sciophila striata* Mg., by Coquillett's designation.
Mycomyia, Johann., pt., Gen. Ins., Fasc. 93, 45 (1909).
GENOTYPE, *Sciophila striata* Mg., according to Coquillett.

tropcia Dol., Nat. Tijd. Ned. Ind. XIV, 392, pl. iv, 2 (*Sciophila*) (1857).
Java. *Type* possibly lost; location unknown to present author. Van der Wulp removes the species from *Sciophila* to this genus on the strength of Doleschall's figure.

indivisa Walk., Proc. Linn. Soc. Lond. VII, 233 (*Leia*) (1864).
Waigou. *Type* in good condition in British Museum.
Mr. Edwards informs me the species belongs here.

propinqua de Meij., Tijd. v. Ent., L, 203, ♂ ♀, pl. v, 4, wing, pt. (*Empheria*) (1907).
Semarang, iii [*Jacobson*]. *Types* in Amsterdam Museum, including pairs *in cop.*

apicalis, *id.*, *loc. cit.*, 204, ♂, pl. v, 5, wing, pt. (*Empheria*) (1907).
Semarang, i [*Jacobson*]. Unique *type* in Amsterdam Museum.

Subfamily *DIADOCIDIINAE.*

Chiasmoneura, de Meij.

Tijd. v. Ent., LVI, 323 (1913).
GENOTYPE, *C. anthracina*, *id.*, *loc. cit.*, sp. nov.

anthracina de Meij., *loc. cit.*, 324, ♀, pl. xv, 1*b*, wing (1913).

[1] I followed Johannsen in uniting this genus with *Mycomyia* in my Fauna volume, but both Coquillet and de Meijere keep them separate.

Wonosobo, Java [*Jacobson*]. *Type*, unique, in Amsterdam Museum.

Subfamily *MYCETOBIINAE.*

Mesochria, Enderl.

Tr. Linn. Soc. Lond. XIV, 65 (1910).
GENOTYPE, *M. scoffiana*, sp. nov., *loc. cit.*

cinctipes de Meij., Tijd. v. Ent. LVI, 322, ♂ (1913).
Batavia, viii [*Jacobson*]. *Type* in Amsterdam Museum.

Subfamily *MYCETOPHILINAE.*[1]

(For tab. orient. gen. *v.* Brun., Fauna Brit. Ind., 80).

Boletina, Staeg.

Naturh. Tidsskr. III, 233 (1840).
Johan., Gen. Ins., Fasc. 93, 73.
GENOTYPE, *Leia trivittata* Mg., by designation of Johannsen.

brevirostris Brun., Fauna Brit. Ind., 83, ♂, pl. iii, 7, head (*Gnoriste*) (1912).
Mundali, Dehra Dun, 9000 ft., 12-v-10 [*Beebe*]. *Type*, unique, in Indian Museum.

The name of this species is misleading now that it is referred here, but was applicable when placed in *Gnoriste*. My error was kindly pointed out to me by Mr. Edwards (*in litt.*).

Leptomorphus, Curt.

Brit. Entom. 365 (1831).
Sch., F. Austr. II, 453: Johan., Gen. Ins., Fasc. 93, 71: Brun., Fauna Brit. Ind., 84, pl. ii, 1, wing.
GENOTYPE, *L. walkeri* Curt., by original designation.

ornatus Brun., Fauna Brit. Ind., 85, ♀ (1912).
Sylhet, 3-ii-05 [*Hall*]. *Type*, unique, in Indian Museum.

Palaeoanaclinia, Meun.

Monog. Mycetoph., 143 (1904).
Johan., Gen. Ins., Fasc. 93, 85, pl. v, 22, 23, wing (1909); Brun., Fauna Brit. Ind., 85, pl. ii, 7, wing (1912).
GENOTYPE, *P. distincta* Meun., by original designation.

spathulata Brun., Fauna Brit. Ind., 84, ♂, pl. iii, 8, head (*Gnoriste*) (1912).
Darjiling, 29-v-10 [*Brunetti*]. *Type*, unique, in Indian Museum.

[1] For table of genera see Kieff., Gen. Ins., Fasc. 93, 52.

flavohirta Brun., *loc. cit.*, 86, ♂ (1912).
Darjiling, 11-viii-09 [*Jenkins*]. *Type*, unique, in Indian Museum.

Allactoneura, de Meij.

Tijd. v. Ent. L, 201 (1917).
Johan., Gen. Ins., Fasc., 93, 70: Brun., Fauna Brit. Ind., 88.
GENOTYPE, *A. cincta* de Meij., the original species.
Scottella, Enderl., Trans. Linn. Soc. Lond. XIV, 60 (1910).
GENOTYPE, *S. argenteosquamosa*, sp. nov., *loc. cit.*

obscurata Walk., Proc. Linn. Soc. Lond. VIII, 130 (*Mycetophila*) (1865).
Salawatti. *Type* in British Museum, in fair condition, abdomen missing.

cincta de Meij., Tijd. v. Ent. L, 202, ♂ ♀, pl. v, 2, 3, wing (1907).
Brun., Fauna Brit. Ind., 88 ♂ ♀, pl. i, 17, wing: Meij., Tijd. v. Ent. LVI, 321.
Scottella formosana, Enderl., Trans. Linn. Soc. Lond. XIV, 63, ♀, fig. 3, wing (1910).
Allactoneura formosana, de Meij., Tijd. v. Ent. LVI, 320.
Scottella argenteosquamosa, Enderl., Trans. Linn. Soc. Zool. (2) XIV, 60 (1910).
Sylhet, 1-i-05 [*Hall*]; Thaumaspur, Nepal. 18—20-ii-08; Kobo, N.E. Ind. Frontier, 2-xii-11 [*Kemp*]; Peradeniya, ix, xii-09 [*Green*]; 10—30-vi-10 and 15-viii-10 [both *Gravely*]; Semarang, ii, iii-06; Buitenzorg, ix; Nongkodjadjar, i; Wonosobo, iv [all Java and *Jacobson*]; Kyukokado, Formosa, 6-i-08 [*Sauter*]. *Types* of *cincta* in Amsterdam Museum, of *S. formosana* in Stettin Zoological Museum.

nigrofemorata de Meij., Tijd. v. Ent. LVI, 322, ♀.
Nongkodjadjar, Java, i [*Jacobson*]. *Type*, unique, in Amsterdam Museum.

Odontopoda, Aldr.

Rep. Geol. Indiana, XXI, 187 (1898).
Johann., Gen. Ins., Fasc. 93, 70: Brun., Fauna Brit. Ind., 89, pl. i, 16, wing.
GENOTYPE, *O. sayi* Aldr., by original designation.
Proanaclinia, Meun., Monog. Myceto., 145 (1904).[1]

indica Brun., Fauna Brit. Ind., 90, ♂ (1912).
Darjiling, 1-x-08 [*Brunetti*]. Unique *type* in Indian Museum.

Anomalomyia, Hutton.

Index Fauna Nov. Zeal., 134 (1904).
Johann., Gen. Ins., Fasc. 93, 83: Brun., Fauna Brit. Ind. 90, pl. ii, 6, wing.

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[1] I cannot obtain access to this work.

Anomala, Marshall (*nec* Stephens), Trans. N. Zeal. Inst. XXVIII, 293 (1896).

GENOTYPE, *Mycetophila guttata* Hutton, by original designation.

indica Brun., Fauna Brit. Ind., 91, ♂ (1912).
Darjiling, 7-viii-09 [*Paiva*]. Unique *type* in Indian Museum.

Acrodicrania, Skuse.

Proc. Linn. Soc. N. S. Wales (2) III, 1194 (1888).
Johann., Gen. Ins., Fasc. 93, 81: Brun., Fauna Brit. Ind. 92.

GENOTYPE, *A. atricauda* Skuse, by original designation.

ferruginea Brun., Fauna Brit. Ind., 93, ? ♀ (1912).
Khasi Hills, 1000–3000 ft., x-06. Unique *type* in Pusa coll.

incerta, *id.*, *loc. cit.*, 93, ♀ (1912).
Kurseong, 20-vi-10 [*Annandale*]. Unique *type* in Ind. Mus.

Clastobasis, Skuse.

Proc. Linn. Soc. N.S. Wales (2) V, 617 (1890).
Johann., Gen. Ins., Fasc. 93, 80: Brun., Fauna Brit. Ind., 94, pl. ii, 5, wing.

GENOTYPE, *C. tryonii* Skuse, by original designation.

vittigera Brun.. Fauna Brit. Ind., 95, ♀ (1912).
Sadiya, Assam. Unique *type* in Indian Museum.

Leia, Mg.[1]

Syst. Besch. I, 253 (1818).
Sch., F. Austr. II, 459; Johann., Gen. Ins., Fasc. 93, 76: Brun., Fauna Brit. Ind., 96: *Auctt.*

GENOTYPE, *L. fascipennis* Mg., by Curtis's designation, 1837.

Lejomya, Rond., Dipt. Ital. Prod. I, 195 (1856).
Lejosoma, *id.*, *loc. cit.*, I, Corrigenda (1856).
Glaphyroptera, Winn., Verh. z.b. Ges. Wien XIII, 781 (1863).

GENOTYPE, *Leia fascipennis* Mg., by Coquillett's designation.

Neoglaphyroptera, Ost. Sack., Cat. N. Amer, Dipt., 10, *nom. nov.* (1878).
Greenomyia, Brun., Fauna Brit. Ind., 87 (1912).

GENOTYPE, *G. nigricoxa*, *id.*, *loc. cit.*, sp. nov.

winthemi Lehm., Ins. spec., etc., 39 (1822): Meig., Syst. Besch. VII, 48: Winn., Verh. zool.-bot. Ges. Wien XIII, 789 (*Glaphyroptera*): Wulp, Dipt. Sum. Exped., 7 (*Glaphyroptera*): *Auctt. var.*: Brun., Fauna Brit. Ind., 97, ♂ ♀, pl. ii, 2 wing.

[1] Respecting *Leia v. Lejomyia*, see Johann., Gen. Ins. Fasc. 93, 76, and Edw., Ann. Mag. Nat. Hist. (8) XII, 201 (1913).

Mycetophila maculipennis, Say, in Long's Exped. St. Peter's Riv., App 365 (1824).

Leia trifasciata, Walk., List Dipt. Brit. Mus. I, 93 (1848).

Simla, 25-iv-07, 5-v-07, 10-v-09; Matiana, Simla District, 28—30-iv-07 [all *Annandale*]; Naini Tal, 2-vi-09; Darjiling, 29-v-10 [*Brunetti, Paiva*]; Ukhrul, Manipur [*Pettigrew*]; Sumatra. Also occurs in Europe and North America. *Type*: the location of this unknown to me.

bimaculata Walk., List Dipt. Brit. Mus. I, 100 (*Mycetophila*) (1848).

East Indies. *Type* in British Museum in fair condition (no abdomen). Mr. Edwards informs me it belongs to this genus.

maculicoxa Enderl., Trans. Linn. Soc. Lond. XIV, 69 (1910).
Edw., Ann. Mag. Nat. Hist. (8) XII, 200, note.

Rhymosia fascipes, Brun., Fauna Brit. Ind., 106, ♂, pl. iii, 12, ♂ genitalia (1912).

Peradeniya, x, 1912 [*Edw.*], 7-viii-10 [*Gravely*]. *Type* of *fascipes* in Indian Museum, location of that of *maculicoxa* unknown to me.

nigricoxa Brun., Fauna Brit. Ind., Dipt., 87, ♂, pl. ii, 8, wing; pl. iii, 9, ♂ genitalia (*Greenomyia*) (1912).

Leia spathulata, *id.*. *loc. cit.*, 101, ♂ (1912).

Phagu, 3-v-07, *type* of *nigricoxa* [*Annandale*]; Darjiling, 25-v-10, *type* of *spathulata* [*Brunetti*]. The identity of these two species was pointed out to me by Mr. Edwards (*in litt.*).

flavobrunnea Brun., Fauna Brit. Ind., 99, ♂ (1912).

Darjiling, 29-v-10 [*Brunetti*]. *Type*, a unique specimen, in Indian Museum.

arcuata, *id.*, *loc. cit.*, 99, ♂ ♀, pl. ii, 3, wing (1912).
Brun., Rec. Ind. Mus. XIII, 62.

Kurseong, 9-vii-08, *type* ♂, 5-vii-08, *type* ♀, 3-vii-08, 15-iv-11, 26-vi-10; Darjiling; Naini Tal, 10-vi-09; Simla, x-08 [*Howlett*]; Bhowali, Kumaon, 28-vi-10 and vii-09 [*Imms*]; Khasi Hills (1000—3000 ft.), iii-07; Komsing, N.E. Ind. Frontier, 1-iii-12 [*Kemp*]; Ceylon. *Type* in Indian Museum, *co-type* in Pusa collection.

bicolor, *id.*, Fauna Brit. Ind., 100, ♀ (1912).

Kurseong, 7-ix-09 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

insignis, *id.*, *loc. cit.*, 101, ♀ (1912).

Ukhrul, Manipur (6400 ft.). *Type*, a unique specimen, in Indian Museum.

nigra, *id.*, *loc. cit.*, 101, ♀ (1912).

Naini Tal, 2-vi-09, *type*; Simla, 9-v-09 [*Annandale*]; Senchal, v-13 [*Lord Carmichael* coll.]. *Type* in Indian Museum.

demeijerei *nom. nov.*

L. nigra, de Meij., Bijd. tot. Dierk. XIX, 46, pl. i, 3, wing (1913).
Ceram, ii. *Type* in Amsterdam Museum
The name *nigra* is preoccupied by me in 1912.

Rhymosia, Winn.

Verh. z.b. Ges. Wien XIII, 810 (1863).
Sch., F. Austr. II, 463: *Auctt. var.*: Johan., Gen. Ins., Fasc. 93, 102: Brun., Fauna Brit. Ind., 102.
GENOTYPE, *R. fasciata* Mg., by designation of Johannsen (Gen. Ins., Fasc. 93, 102, 1909).

flavolimbata Brun., Fauna Brit. Ind., 103, ♂ ♀ (1912).
Kurseong, 4-vii-08, *type*, 21-vi-10 [both *Annandale*]; Simla, x-03 [*Howlett*]; Kumaon, vii-09 [*Imms*]. *Type* in Ind. Mus.

genitalis, *id.*, *loc. cit.*, 104, ♂ (1912).
Darjiling, 29-v-10 [*Brunetti*]. *Type*, a unique specimen, in Indian Museum.

albolateralis, *id.*, *loc. cit.*, 104, ♂ (1912).
Naini Tal, 10-vi-09. *Type* in Indian Museum, a unique specimen.

annulicornis, *id.*, *loc. cit.*, 105, ♂ ♀, pl. ii, 10, wing; pl. iii, 13, 14, genitalia and antennae (1912).
Madhupur, Bengal, 13-x-09, *type* ♂ ♀, 15-x-09 [*Paiva*]; Calcutta, 18-vii-08 [*Annandale*]; Peradeniya, 14—16-vii-10 [*Gravely*]. *Types* in Indian Museum.

humeralis, *id.*, *loc. cit.*, 106, ♂ (1912).
Sylhet, 3-ii-05 [*Hall*]. *Type*, a unique specimen, in Indian Museum.

Allodia, Winn.

Verh. zool.-bot. Ges. Wien XIII, 826 (1863).
Sch., F. Austr. II, 466: *Auctt. var.*: Johan., Gen. Ins., Fasc. 93, 103: Brun., Fauna Brit. Ind., 107.
GENOTYPE, *Mycetophila lugens* Wied., by Johannsen's designation.
Brachycampta, Winn., Verh. z.b. Ges. Wien XIII, 833 (1863).
GENOTYPE, *Mycetophila alternans* Zett., by Coquillett's designation.

nigrofasciata Brun., Fauna Brit. Ind., 108, ♂ ♀, pl. ii, 11, wing (1912).
Simla, 10-v-09, *type* ♂ ♀ [*Annandale*]; Kufri, v; Mundali, Dehra Dun, 9000 ft., 10—12-v-10 [*Beebe*]. *Types* in Indian Museum.

Macrobrachius, Dzied.

Hor. Soc. Ent. Ross. XXIII, 520 (1889).
Johan., Gen. Ins., Fasc. 93, 98: Brun., Fauna Brit. Ind., 108.

GENOTYPE, *M. kowarzii* Dzied., by original designation.

longicosta Brun., Fauna Brit. Ind., 109, ♂, pl. iii, 11, ♂ genitalia (1912).

Kurseong, 25-vi-10 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

Phronia, Winn.

Verh. zool.-bot. Ges. Wien XIII, 857 (1863).
Sch., F. Austr. II, 471 : *Auctt. var* : Johan., Gen. Ins., Fasc. 93, 95 : Brun., Fauna Brit. Ind., 110, pl. ii, 9, wing.
GENOTYPE, *P. rustica* Winn., by designation of Johannsen.

simplex Brun., Fauna Brit. Ind., 111, ♀ (1912).

Assam. *Type*, unique, in Indian Museum.

semifumata, *id.*, *loc. cit.*, 111, ♂, pl. iii, 10, ♂ genitalia (1912).

Tonglu, Darjiling, 21-iv-10 [*Beebe*]. *Type* in Indian Museum, a unique specimen.

Exechia, Winn.

Verh. zool.-bot. Ges. Wien XIII, 879 (1863).
Sch., F. Austr. II, 475 : *Auctt. var.* : Johan., Gen. Ins., Fasc. 93, 106 : Brun., Fauna Brit. Ind., 112.
GENOTYPE, *E. fungorum* DeGeer, by Johannsen's designation.

Parexechia, Bech., Ins. v. Jan Mayen, 62 (1886).
GENOTYPE, *P. concolor*, *id.*, sp. nov., *loc. cit.*, pl. v., fig. 3, 3*a*—3*c*, full ins. var. chars.

Brachydicrania, Skuse, Proc. Linn. Soc. N.S. Wales (2) III, 1215 (1888).
GENOTYPE, *B. pullicauda*, *id.*, sp. nov., *loc. cit.*

basilinea Brun., Fauna Brit. Ind., 113, ♂ ♀, pl. ii, 12, wing (1912).

Kurseong, 3—4-vii-08 [*Annandale*]; Simla, x-08 [*Howlett*]. *Types*, a unique pair, in Indian Museum.

Euryschalis, Brun.

Fauna Brit. Ind., App., 559 (1912).
GENOTYPE, *E. spectralis*, the original species.

spectralis Brun., *loc. cit.*, 560, ♂ (1912).

Kurseong, 16-iv-11 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

Mr. Edwards informs me (*in litt.*) that *Euryschalis* may be synonymous with *Coelosia* Winn., but as there are no specimens at hand of the latter genus for comparison, I leave the question open for the present. The costa attains the wing tip in *Euryschalis*; the genital organs are very different to those figured in the Genera Insectorum; the fore metatarsi are about equal to the corresponding tibiae.

Mycetophila, Mg.

Illig. Mag. II, 263 (1803).
Sch., F. Austr. II, 484: *Auctt.*: Johan., Gen. Ins., Fasc. 93, 115: Brun., Fauna Brit. Ind., 113.
Genotype, *M. agarici* Oliv., proposed by Johannsen (Gen. Ins., Fasc., 93, 106, 1909).

Mycetina, Rond., Dipt. Ital. Prod. I, 195 (1856).
Genotype, *Mycetophila flavipes* Macq., by original designation.

Mycozetoea, *id.*, *loc. cit.*, IV, Corrigenda, 12 (1861).

cinctiventris Brun., Fauna Brit. Ind., 115, ? ♂ (1912).
Simla, 10-vii-09 [*Annandale*], x-08 [*Howlett*]. *Type*, unique, in Indian Museum.

quadrifasciata, *id.*, *loc. cit.*, 115, ♂, pl. ii, 13, wing (1912).
Simla, 10-v-09 [*Annandale*]. *Type*, unique, in Ind. Mus.

curvilinea, *id.*, *loc. cit.*, 116, ♀, pl. ii, 14, wing (1912).
Darjiling, 10—16-x-05 [*Brunetti*]. *Type*, unique, in my collection.

suffusa, *id.*, *loc. cit.*, 117, ♀ (1912).
Simla, 10-v-09 [*Annandale*]. *Type*, unique, in Ind. Mus.

himalayensis, *id.*, *loc. cit.*, 117, ♂ (1912).
Simla, 10-v-09 [*Annandale*]; Naini Tal, 10-v-09. *Type* in Indian Museum.

binotata *id.*, *loc. cit.*, 118, ♂ ♀ (1912).
Id., Rec. Ind. Mus., XIII, 63.
Darjiling, 20-ix-08, *type*, ♂, 26-ix-08, 29-v-10 [all *Brunetti*]; Simla, 10-v-09, *type* ♀ [*Annandale*], 8-x-11 [*Howlett*]; Ukhrul, Manipur. *Types*, ♂ ♀, in Indian Museum.

Mr. Edwards calls my attention to the name *M. binotata*, Halid., which, as he states, is a synonym of *Zygomyia pictipennis*. The name of my species need not therefore be changed.

Delopsis, Skuse.

Proc. Linn. Soc. N.S. Wales (2) v, 623 (1890).
Brun., Fauna Brit. Ind., 118: Johan., Gen. Ins., Fasc. 93, 115.
Genotype, *D. flavipennis* Skuse, by original designation.

griseolateralis, *id.*, *loc. cit.*, 116, ♂ (*Mycetophila*) (1912).
Tonglu, Darjiling, 10,000 ft., 21-iv-10 [*Beebe*]. *Type*, unique, in Indian Museum.

brunettii Edwards, Ann. Mag. Nat. Hist. (8) XII, 55, *nom. nov.* (1913).
collaris, Brun., Fauna Brit. Ind., 119, ♂ (1912).
Maddathorai (Travancore), 17-xi-08 [*Annandale*]. *Type* in Indian Museum, unique.

This species is renamed by Edwards who finds that *Mycetophila collaris*, Enderl., from the Seychelles, is a *Delopsis*.

Family BLEPHAROCERIDAE.

Hammatorhina, Loew.

Bull. Soc. Ent. Ital. I, 4 (1869).
Brun., Fauna Brit. Ind., 152.
Kellogg, Gen. Ins., Fasc. 56, 9.
GENOTYPE, *H. bella*, the original and only species.

bella Loew, Bull. Soc. Ent. Ital. I, 96, pl. ii, 4—6 (1869).
Kellogg, Gen. Ins., 9, pl. ii, 17, antenna, 27, wing: Brun., Fauna Brit. Ind., 152, fig 14, wing, antenna.
Ceylon. *Type*, location uncertain.

Apistomyia, Big.

Ann. Soc. Ent. Fran. (4) II, 109 (1862).
Kellogg, Gen. Ins., Fasc. 56, 8.
Brun., Fauna Brit. Ind., 153.
GENOTYPE, *A. elegans* Big.

trilineata Brun., Rec. Ind. Mus. IV, 315, ♂ (1911).
Id., Fauna Brit. Ind., 154, ♀.
Kurseong, 4-ix-09 [*Annandale*]. *Type*, a unique ♂, in Indian Museum.

Blapharocera, Macq.

Ann. Soc. Ent. Fran. (2) I, 61 (1843)(*Blepharicera*).
Sch., F. Austr. II, 637 (*Blepharicera*): Kellogg, Gen. Ins., Fasc. 56, 11: Brun., Fauna Brit. Ind, 155 (*Blepharocera*).
GENOTYPE, *Asthenia fasciata* Westw. (as *Blepharicera limbipennis*, sp. nov.).
Asthenia, Westwood, Guer. Mag. d. Zool. (2) IV, pl. xciv (1842); preocc. Hubn. 1816.
GENOTYPE, *Asthenia fasciata* Westw., by original designation.

indica Brun., Rec. Ind. Mus. IV, 316, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 156, ♂ ♀, fig. 15, wing.
Phagu, 12—15-v-00 [*Annandale*]. *Types* in Indian Museum.

Philorus, Kellogg.

Proc. Acad. Sci. Calif. (3) Zool. 3, 199 (1903).
Kellogg, Gen. Ins., Fasc. 56, 14.
GENOTYPE, *Liponeura bilobata* Loew.[1]

bionis Agharkar. Rec. Ind. Mus. X, 160, ♂ ♀, pl. xvi, figs. of various larvae, pl. xvii, full figs. ♂ ♀, head ♂ ♀, genitalia ♂ ♀, wing (1914).
Nagaberan, Kashmir. *Types* in Indian Museum.

[1] Apparently this species was selected by Kellogg as the type.

Family BIBIONIDAE.

Subfamily *SCATOPSINAE.*

Scatopse, Geoff.[1]

Hist. Nat. II, 545 (1764).
Sch., F. Austr. II. 348: *Auctt. var.*: Brun., Fauna Brit. Ind., 179.
Scathopse, Geoff., Hist. abregée Ins. II, 544 (1762).
Genotype, *Tipula notata* L., by designation of Latreille, as *Tipula albipennis* F.

brunnescens Brun., Rec. Ind. Mus. IV, 281, ♀ (1911).
Id., Fauna Brit. Ind., 180, ♀, fig. 20, wing.
Peradeniya, 9-vii-10 [*Gravely*]. *Type*, unique, in Ind. Mus.

nigronitida Brun., Rec. Ind. Mus. IV, 281, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 181, ♂ ♀, fig. 21, antenna, wing, leg.
Dharampur, 5000 ft., Simla Hills, 14-v-08, two pairs *in cop.* [*Annandale*]. *Types* in Indian Museum.

crassiuscula de Meij., Tijd. v. Ent. LVI, 325, pl. xv, 2, wing (1913).
Batavia, x [*Jacobson*]. *Type*, unique, in Amsterdam Museum.

palliditarsis, *id.*, *loc. cit.*, 325, ♀, pl. xv, 3, wing (1913).
Banjuwangi, E. Java [*MacGillavry*]. *Type*, unique, in Amsterdam Museum.

pallidicornis, *id.*, *loc. cit.*, 326, pl. xv, 4, wing (1913).
Semarang, x [*Jacobson*]. *Type* in Amsterdam Museum.

crassicornis, *id.*, *loc. cit.*, 326, pl. xv, 5, wing (1913).
Batavia, x [*Jacobson*]. *Type* in Amsterdam Museum.

Subfamily *BIBIONINAE.*

Crapitula, Gimm.

Bull. Soc. Imp. Nat. Mosc. XVIII, 2, 330 (1845).
Genotype, *Penthetria melanaspis* Wied., by original designation.
Plecioınyia, Brun., Rec. Ind. Mus. IV, 269 (1911): *id.*, Faun. Brit. Ind., 160.
Genotype, *Penthetria melanaspis* Wied., by original designation.

melanaspis Wied., Auss. Zweifl. I, 72 (*Penthetria*) (1828).
Brun., Rec. Ind. Mus. IV, 270 (*Pleciomyia*): *id.*, Fauna Brit. Ind., 161, ♂ ♀, pl. xii, 11, wing, 14, antenna (*Pleciomyia*).
Penthetria japonica, Wied., Auss. Zweifl. II, 618 (1830).
Crapitula motschulskii, Gimm., Bull. Soc. Imp. Nat. Mosc. XVIII, 2, 330, fig. (1845).

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[1] Coquillet upholds the original spelling, *Scathopse*, but as no named species was quoted at its erection, though two unnamed species were described, this generic name cannot be accepted.

Id., id., Loew., Berl. Ent. Zeits. II, 106, pl. i, 12.
Crapitula melanaspis, Brun., Rec. Ind. Mus. IX, 256.
Plecia ignicollis, Walk., List Dipt. Brit. Mus. I, 116 (1848).
Plecia melanaspis, Auctores.

Himalayas (many locs.); Nepal; Assam; N.E. Ind. Frontier; China; Japan; Siberia. Probably common everywhere throughout the temperate regions of the Orient, and in Eastern Asia from about March to October. Not found in the plains in India. Occurs in Australia. *Types* in the Leyden and Vienna Museums.

Plecia, Wied.

Auss. Zweifl. I, 72 (1828).
Brun., Rec. Ind. Mus. IV, 270: *Id.*, Fauna Brit. Ind., 162: *Auctores.*
GENOTYPE, *Hirtea fulvicollis* F., by designation of Blanchard (Hist. Nat. Ins. III, 576, 1840).
Eupeitenus, Macq., Dipt. Exot. I, 88 (1838).
GENOTYPE *E. atra* Macq., by original designation.
Rhinoplecia, Bell., Ditt. Messico I, 16 (1859).
GENOTYPE, *Plecia rostellata* Lw., as *rostrata*, sp. nov., by original designation.

fulvicollis F., Syst. Antl., 53 (*Hirtea*) (1805).

Plecia fulvicollis, Wied., Auss. Zweifl. I, 73: Macq., Hist. Nat. Dipt. I, 176: Dol., Nat. Tijd. Ned. Ind. X, 407, pl. vi, 3: Ost. Sack., Ann. Mus. Gen. XVI, 397: *id.*, Berl. Ent. Zeits. XXVI, 96: de Meij., Tijd. v. Ent. LIII, 59, larva and pupa, pl. iv, 1, 2: Brun., Rec. Ind. Mus. IV, 271: *id.*, Fauna Brit. Ind., 163, ♂ ♀, pl. xii, 12, wing, 15, antenna.
Plecia dorsalis, Walk., Proc. Linn. Soc. Lond. I, 5 (1857), Singapore, Mount Ophir.
Plecia subvarians, id., loc. cit., I, 105 (1857), Sarawak.
Penthetria thoracica, Guer., Belanger's Voy. aux Indes Orient., Zool., 557, pl. iv, 9 (1833).

India; Ceylon; Burma; Assam; Java; Sumatra; Borneo; Ternate; Celebes; Dutch Papua; Philippines; probably common throughout the Oriental Region (though confined mainly to the plains), during the greater part of the year. *Type.* Probably no individual specimen was ever selected as such: the species is found in the Fabrician and other older collections.

tergorata Rond., Ann. Mus. Gen. VII, 462 (1875).

Ost. Sack., *loc. cit.*, XVI, 397: Brun., Rec Ind. Mus. IV, 271, notes: *id.*, Fauna Brit. Ind. 164, pl. xii, 17, antenna.

Bhim Tal, 19—27-ix-06, including ♂ ♀, *in cop.*; Sukna, 1-vii-08 [both *Annandale*]; Kurseong, 6—9-viii-09 [*Paiva*]; Mussoorie, x-06; Bhowali, 13-vi-10 [*Imms*]; Shan Hills, Upper Burma, 26-vi-10 [*Annandale* and *J. C. Brown*]; Shillong, 5500–6400 ft., 29-viii—5-ix-15 [*Kemp*]; Khasi Hills, 17-iii-07; Malabar,

5-viii-07; Singapore; Java; Sarawak. *Type* in Genoa Museum.

forcipata Ost. Sack., Ann. Mus. Gen. XVI, 397 (1881).
de Meij., Tijd. v. Ent. LIII, 63.
Sumatra; Semarang, iii, viii, Wonosobo, iv [both Java and *Jacobson*]. *Type* in Genoa Museum.

tristis Wulp, Notes Leyden Mus. VI, 251, ♀ (1884).
de Meij., Tijd. v. Ent. LVI, 327, note.
Mount Ardjoeno, East Java; Gunung Gedeh, iii; Nongkodjadjar [both Java and *Jacobson*]. *Type* in Leyden Museum.

indica Brun., Rec. Ind. Mus. IV, 271, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 165, ♂ ♀.
Darjiling, *type* ♂ ♀, 2-x-08 and 10—16-x-05 [both *Brunetti*]; Theog., 27-iv-06; Kumaon, ix-06 [both *Annandale*]; Mussoorie, x-06; Soondrijal, Nepal; Kimoli, 24-x-07; Kangra Valley (4500 ft.); Ukhrul, Manipur [*Pettigrew*]; Khasi Hills, 17-iii-07. *Types* in Indian Museum; *cotypes* in Pusa coll. and my own.

atra Brun., Rec. Ind. Mus. IV, 272, ♀ (1911).
Id., Fauna Brit. Ind., 165, ♀, pl. xii, 13, wing, 16, antenna.
Bhim Tal (4500 ft.). including *type*, 19—22-ix-06 [*Annandale*]; Soondrijal, Nepal. *Type* in Indian Museum.

obscura Brun., Rec. Ind. Mus. IV 272, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 166, ♂ ♀.
Mussoorie, 24-v-05, *types* [*Brunetti*]. *Types* in my collection.

impostor, *id.*, Rec. Ind. Mus. VII, 446, ♂ ♀ (1912).
Airadeo, Kumaon Div., 6,880 ft., 31-v-12, *type* ♂ ♀; Bhowali, 25-vi 12 [both *Imms*]. *Type* ♂ ♀ in Indian Museum, *cotype* ♀ in Forest Zoology coll., Debra Dun.

Parapleciomyia, Brun.

Rec. Ind. Mus. IX, 446 (1912).
Genotype, *P. carbonaria* Brun., by original designation.

carbonaria Brun., *loc. cit.*, 447, ♂ ♀ (1912).
Bhowali, 11-v-12, *type* ♂; Sat Tal, near Kumaon, 9-v-12 [both *Imms*]. *Type*, a unique pair, in Indian Museum.

Bibio, Geoff.

Hist. Nat. Ins. II, 571 (1764).
Sch., F Austr. II, 357: Brun., Rec. Ind. Mus., IV, 273, tab. orient. spp.: *id.*, Fauna Brit. Ind., 166, fig. 17, head ♂ ♀: *Auctt. var.*
Genotype, *B. hortulanus* L., by Latreille's designation.

Pullata, Harris, Expos. Engl. Ins., 77 (1776).
Genotype, *Tipula pomonae* F., as *funestus*, sp. nov., by original designation.

Hirtea, Mg., Illig. Mag. II, 264 (1803).
Genotype, no species selected.

johannis L., Syst. Nat. XII, 2, 976 (1767).
Sch., F., Austr. II, 361 : Brun., Rec Ind. Mus IV, 278 : *id.*, Fauna Brit. Ind. 172, ♂ ♀ : *Auctt. var.*
Bibio rufipes, Mg., Syst. Besch. VII, 55 (1838).
Hirtea praecox, Fab., Syst. Antl., 51 (1805).
Hirtea hyalina et *praecox*, Mg., Klass. I, 110, 111 (1804).
Hirtea johannis et *pyri*, *Auctt.*
Tipula pomonae, Schrk. Fauna Boica III, 79 (1803).
Tipula pyri, F., Ent. Syst. IV, 249 (1794).
Matiana, 28—30-iv-07; Theog., 2-v-07 [both *Annandale*].
Type, location unknown to present author.
A common European species.

bicolor Walk., List Dipt. Brit. Mus. I, 121, ♀ (1848).
East Indies. *Type* in British Museum in good condition.
Van der Wulp (Cat.) quotes East India as the locality, which is quite different. This error is frequent in his Catalogue.

obediens Ost Sack., Ann. Mus. Gen. XVI, 395, ♀ (1881).
Hatam, Papua vii, 1875 [*Beccari*]; Heuvel-Biwak, xi, ♀.
Type, a unique ♀, in Genoa Museum.

plecioides Ost. Sack., *loc. cit.*, 396, ♀ (1881).
Hatam, Papua, vii, 1875 [*Beccari*]. *Type* in Genoa Museum.

rubicundus Wulp., Notes Leyd. Mus. VI, 251, ♀ (1884).
Java [*Muller*]. *Type*, a unique ♀, in Leyden Museum.
Possibly identical with *obediens* Ost. Sack.

obscuripennis de Meij., Bijd. tot Dierk. XVII, 86, ♂ ♀ (1904).
Brun., Rec. Ind. Mus. IV, 275, notes : *id.* Fauna Brit. Ind., 170, ♂ ♀, fig. 18, wing.
Darjiling, 16-x-05 [*Brunetti*], 27-v-10 [*D'Abreu*]; Kurseong, 27—28-iv-10 [*D'Abreu*]; Chitlong, Nepal; Mt. Tahe-pum, 4000—5000 ft., N.E. Burmese Frontier, xi-10 [*C. W. Beebe*]; Rotung, Dihang Riv., 25-xii-11 [*Kemp*]; Matiana, 28—30-iv-07 [*Annandale*]; Naini Tal, 26-ix-07. *Type* in Amsterdam Museum.

hortulanoides Brun. Rec. Ind. Mus. IV, 274, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 169, ♂ ♀.
India (probably Darjiling District), *type* ♂; Kurseong, 15-v-10, *type* ♀; Darjiling District, vi-12. *Types* in Indian Museum.

proximus Brun., Rec. Ind. Mus. IV, 275, ♂ (1911).
Id., Fauna Brit. Ind., 171, ♂.
Darjiling, xi-1910 [*D'Abreu*]. *Type*, a unique ♂, in Ind. Mus.

abdominalis Brun., Rec. Ind. Mus. IV, 276, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 172, ♂ ♀.
Western Himalayas; Badrinath, 10.200 ft., Garhwal Distr., 27-v-10, ♂ ♀, *types in cop.* [*A. D. Imms*]; Phagu, 11-v-09 [*Annandale*]. *Types* in Indian Museum.

approximatus Brun., Rec. Ind. Mus. IV, 277, ♀ (1911).
Id., Faun. Brit. Ind., 173, ♀.
Kurseong, xi-10 [*D'Abreu*]. *Type*, a unique ♀, in Ind. Mus.

discalis Brun., Rec. Ind. Mus. IV, 278, ♀ (1911).

Id., Fauna Brit. Ind., 174, ♀.

Phagu, 11-v-09 [*Annandale*]. *Type*, a unique ♀, in Ind. Mus.

rufifemur Brun., Rec. Ind. Mus. IV, 279, ♀ (1911).

Id., Fauna Brit. Ind. 175, ♀.

Darjiling, 20-x-05 [*Brunetti*]. *Type* and *cotype* in my collection.

fuscitibia Brun., Rec. Ind. Mus. IV, 279, ♂ (1911).

Id., Fauna Brit. Ind., 175, ♂.

Phakia, Kumaon Div., 10,700 ft., 3-vi-09 [*Imms.*]. *Type* in Indian Museum.

defectus Brun., Rec. Ind. Mus. IV, 280, ♂ (1911).

Id., Fauna Brit. Ind., 176, ♂.

Kurseong, 13-viii-07 [*Paiva*]. *Type* in Indian Museum, a unique specimen.

nigripennis, *id.*, Rec. Ind. Mus. IX, 256, ♀ (1913).

Senchal, Darjiling, 8000 ft., v-13. *Type*, a unique ♀, in inferior condition, in Indian Museum.

Dilophus, Mg.

Illig. Mag. II, 264 (1803).

Sch., F. Austr. II, 355: Brun., Fauna Brit. Ind., 176: *Auctt.*

GENOTYPE, *D. febrilis* L., designated by Latreille.

Acanthocnemis, Blanchard, Gay's Hist. fis. polit. Chile. Zool. VII, 355 (1852).

GENOTYPE, unknown to present author.

gratiosus Big., Jour. Asiat. Soc. Beng. LIX, 265, ♂ ♀ (1890).

Brun., Rec. Ind. Mus. IV, 280, redescr. ♂ ♀: *id.*, Fauna Brit. Ind., 178, ♂ ♀, fig. 19, var. chars.

Dharamsala, W. Himalayas, ix-1890, *type* ♂ ♀ *in cop.* [*Major Sage*]; Kurseong, 24-vi-10; Theog., 2-v-07; Phagu, 11-v-09 [both *Annandale*]; Bhowali, Kumaon, 5700 ft., 20-vi-10; vii-1909 [both *Imms*]; Darjiling, 21-iv-10 [*Beebe*]; Sadon, Upper Burma, 5,000 ft., 2-ii-11, at light; Amangarh, Central India, 24-ii-10. Also occurs in Yunnan, S. China. *Types* in Ind. Mus.

nigriventris de Meij., Tijd. v. Ent. LVI, 327, ♀ (1913).

Nongkodjadjar, Java, i [*Jacobson*]. *Type*, a unique ♀, in Amsterdam Museum.

Family SIMULIIDAE.[1]

Simulium, Latr.

Hist. Nat. Crust. Ins. III, 426 (1802); XIV, 294 (1805).

Sch., F. Austr. II, 363 (*Simulia*): Brun., Rec. Ind. Mus. IV, 282, tab. orient. spp.: *id.*, Fauna Brit. Ind., 182, fig. 23, early stages.

[1] For family characters *v.* Sch., F. Austr. II, xvii and Brun., Fauna, 182.

Simulium et *Simulia*, *Auctt.*
Atractocera, Mg., Klass. I, 94 (1804).
GENOTYPE, *S. reptans* Mg., as designated by Zetterstedt. Coquillett suggests *columbaczensis* Schoub. (*Culex id.*), but *reptans* is most generally accepted.

indicum Becher, Jour. Asiat. Soc. Beng. LIII, 199, ♀, pl. xiv, var. chars (1884).
Brun., Rec. Ind. Mus. IV, 286, notes and *neotype* ♂ described.
Id., Fauna Brit. Ind., 191, ♂ ♀, figs. 24, 25, var. chars.
Simla, 24-iv-07 [*Annandale*]; Darjiling, 12-viii-09 [*Jenkins*]; Kurseong, 10—26-ix-09 [*Lynch*]; Bamon and Thadier (3500 ft.); Tons Valley, N.W. Himalayas [*C. W. Rogers*]; Sylhet, 2-iii-05, 18-iv-05 [*Hall*]; Bombay, 25-xi-09 (*neotype*); Khasi Hills; Ukhrul, Manipur [*Pettigrew*].

Neotype ♂ in Indian Museum. Location of original type unknown to present author, probably no particular specimen selected as such from the series, all of which were females. Specimens from Rotung taken on the Abor Expedition, xii-1911 and 6-i-12 are probably this species.

nobile de Meij., Tijd. v. Ent. L, 206, ♂ (1907).
Semarang, iii [*Jacobson*]. *Type*, a unique ♂, in Amsterdam Museum.

rufithorax Brun., Rec. Ind. Mus. IV, 282, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 187, ♂ ♀.
Kanara, Bombay, viii-07 (*type* ♂); Karwar, Bombay, viii-07; Kurseong, 10—26-ix-09 [*Lynch*]; 7-ix-09 (*type* ♀) [*Annandale*]. *Type* ♂ in Pusa collection, *type* ♀ in Indian Museum.

grisescens Brun., Rec. Ind. Mus. IV, 283, ♂ (1911).
Id., Fauna Brit. Ind., 188, ♂.
Kurseong, 10—26-ix-09 [*Lynch*]. *Type* in Indian Museum, a unique specimen.

metatarsale Brun., Rec. Ind. Mus. IV, 284, ♂ (*metatarsalis*) (1911).
Id., Fauna Brit. Ind., 189, ♂.
Kurseong, 28-iii-10 [*Annandale*]. *Type*, a unique ♂, in Indian Museum.

griseifrons Brun., Rec. Ind. Mus. IV, 285, ♀ (1911).
Id., Fauna Brit. Ind., 190, ♀.
Kalighat, Kumaon (6000 ft.), 4-vi-10 [*Imms*]. *Type*, a unique ♀, in Indian Museum.

rufibasis Brun., Rec. Ind. Mus. IV, 285, ♀ (1911).
Id., Fauna Brit. Ind., 190, ♀.
Kurseong, 18-vi-10 [*Annandale*]. *Type*, a unique ♀, in Indian Museum.

aureohirtum Brun., Rec. Ind. Mus. IV, 287, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 194, ♂ ♀: de Meij., Tijd. v. Ent. LVI, 331.
Umling, Assam, iii-07 (including *type* ♂); Kanara, Bombay.

viii-07 (including *type* ♀); Kurseong, 6-ix-09; Gunung Gedeh, Java, iii [*Jacobson*]. *Types* in Pusa collection.

senile Brun., Rec. Ind. Mus. IV, 288, ♂ (*senilis*) (1911).
Id., Fauna Brit. Ind., 191, ♂.
Phagu, 8-v-07 [*Annandale*]. *Type*, a unique ♂, in Indian Museum.

striatum Brun., Spol. Zeyl. VIII, 90, ♂, pl., var. chars. (1912).
Id., Fauna Brit. Ind., App. 561, ♂: Patton and Cragg, Text Bk. Med. Ent. 172, pl. xxxii, 1–4, var. chars.
Peradeniya, vii-1911 (*type*), xiii-10, 2-vi-19 [*Green* and *Gravely*].
Kodaikanal, S. India, 6000 ft., very common, breeding in hill streams.

eximium de Meij., Tijd. v. Ent. LVI, 330, ♂ ♀ (1913).
Nongkodjadjar, Java, i [*Jacobson*]. *Types* in Amsterdam Museum.

atratum, *id.*, *loc. cit.*, 331, ♂ ♀ (1913).
Gunung Gedeh, Java, iii [*Jacobson*]. *Types* in Amsterdam Museum.

argyrocinctum, *id.*, *loc. cit.*, 332, ♂ ♀ (1913).
Gunung Gedeh, Java, iii [*Jacobson*]. *Types* in Amsterdam Museum.

iridescens, *id.*, *loc. cit.*, 333, ♂ ♀ (1913).
Nongkodjadjar, Java, i [*Jacobson*]. *Types* in Amsterdam Museum.

Family CHIRONOMIDAE.[1]

In the Chironomidae, a family with which I am but poorly acquainted, it has been my endeavour to steer an intermediate course between the broader view as instanced by Dr. Kertesz (Catalogue, 1902), and the narrower one followed by Dr. Kieffer. The former sinks in *Ceratopogon* many groups (*Culicoides*, *Palpomyia*, *Sphaeromyias*, etc.), that are regarded by the latter as generic, some of which have yet again been subdivided into further genera. The exact amount of pubescence on the wing, the degree of incrassation of the femora, also the presence thereon or absence of small spines or spinules, are all characters liable to vary much in degree, so that drawing a hard and fast generic line between the groups becomes increasingly difficult as a greater number of species are discovered.

In admitting *Sphaeromyias*, *Serromyia*, *Heteromyia* and *Bezzia* to generic rank I follow Coquillett (1910), but though that author admits *Culicoides* as generically distinct from *Ceratopogon*, I have been unable to sufficiently differentiate them to do more than list the species of the different groups herein regarded as subgeneric, according to the views of their authors.

Professor Kieffer, in describing many of his new species, has

[1] A number of Indian Museum *types* in this family are still with Prof. Kieffer, but communication with Germany being interrupted by the present war, these types are entered in this catalogue as "belonging to the Indian Museum."

not specified any individual as actual *type*, so that in cases where the species has been described from several specimens these are herein designated as paratypes, each being regarded as of equal value.

Subfamily *CERATOPOGONINAE*.[1]

Calyptopogon, Kieff.

Mem. Ind. Mus. II, 209 (1910).

GENOTYPE, *C. albitarsis* Kieff., sp. nov.

gibbosa[2] Wied., Anal. entom., 10 (*Macropeza*) (1824).

Macropeza gibbosa, *id.*, Auss. Zweifl. I, 20: Macq., Hist. Nat. Dipt. I, 69: de Meij., Tijd. v. Ent. L, 216; LVI, 337.

Macropeza javanensis, Kieff., Mem. Ind. Mus. II, 210, *nom. nov.* for *gibbosa* de Meij. (1910).

? *Macropeza javanensis*, Edwards, Ann. Mag. Nat. Hist. (8), XII, 202.

"Ostindien" [*Wied.*], Semarang, i [*Jacobson*]; Peradeniya, ii-1912. *Type* in Copenhagen Museum.

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[1] For characters and table of genera *v.* Kieff., Gen. Ins., Fasc. 42, p. 44; also (for table of genera), *id.*, Rec. Ind. Mus. IX, 161 (Culicoidinae).

[2] The synonymy of these two species is somewhat confused, owing to erroneous conceptions. Wiedemann described *gibbosa* as entirely black with the front part of the thorax projecting strongly over the head. He then says, "Vorderste Beine" yellow with black tips; "hintere" lengthened, whitish, etc. Did Wiedemann by "beine" mean *legs* or *feet* (i.e. *tarsi*)? "Legs" would be correct, and consistent with his general use of the term. De Meijere adopts this view in his redescription (Tijd. v. Ent. L, 216), giving the legs as reddish-yellow, with knees and extreme tips of tibiae, also last joint of all the tarsi, black.

In the common Indian species, of which the Indian Museum has a dozen specimens, and which I had always regarded (prior to Kieffer setting up *albitarsis*) as *gibbosa* (interpreting "beine" for once as "feet" [*tarsi*] and not "legs"), the femora and tarsi are black or dark brown—irrespective of a little paleness at the bases of one or more pairs in individual specimens; the front tarsi are normally yellow, but may occasionally vary from light brown to nearly white, with black tips; the posterior tarsi are white or whitish, the hind pair generally the whitest, all with narrowly black tips. This species has the conspicuous, conically produced shining black thorax and wholly black body attributable to *gibbosa*.

The erection of *Calyptopogon* and *albitarsis* first caused me to doubt this identification of *gibbosa*, as Kieffer described as *albitarsis* the common Indian species I had regarded as *gibbosa*. He mistranslates the older author's species thus: "anterior and middle feet yellow with black tips; posterior feet whitish." He wrongly employs the terms "anterior" and "posterior" for "fore" and "hind": because whether Wiedemann meant legs or tarsi in this particular instance, he certainly by "vorderste" alluded to the front pair only. The colour of the middle tarsi may well vary from yellow to white. He concludes that Meijere's identification of *gibbosa* from Java is incorrect assuming that as he (Meijere) retained the species in *Macropeza*, the thorax could not be conically produced, but must be as in normal species of that genus. He renamed Meijere's species "*javanensis*." As I pointed out elsewhere (Rec. Ind. Mus. VIII, 150) Meijere could not have failed to note Wiedemann's very distinct description of the peculiarly shaped thorax, so that, whatever his *species* might be, Meijere's "*gibbosa*, Wied." must at least be a *Calyptopogon*.

Mr. Edwards notes (Ann. Mag. Nat. Hist. [8], XII, 202, 1913) a specimen each of two species from Ceylon: (1), "*javanensis* Kieff. (*gibbosa* Meij. *nec* W.)," with *dull brown* thorax only slightly and bluntly produced forwards, and with *yellow* femora and tibiae, and, (2), "*gibbosa*, W. (*albitarsis*, Kieff.)," with shining black, sharply and conically produced thorax, and *black* femora and tibiae.

albitarsis Kieff., Mem. Ind. Mus. II, 209, ♀, pl. viii, 2, hind claws, 6, full ins. ♀ (1910).

Kieff., Rec. Ind. Mus. VI, 124 ♂; IX, 165, note.

Brun., *loc. cit.*, VIII, 150 (note on synonymy).

Macropeza gibbosa, Edwards, Ann. Mag. Nat. Hist. (8), XII, 202.

Calcutta, 11-viii, 27-viii, 25-ix, 3-x, 25-x, 11—18-xi-07; Katihar, Bengal; Madhupur, Bengal, x; Monghyr, Bengal, 22-ix [*Jenkins*]; Damukdia Ghat, Ganges Riv., E. Bengal, at light, 30-vi; Lake Chilka, 5-iii; Puri, at light; Dibrugarh, Assam, 17—19-xi-11 [*Kemp*]; Peradeniya, x-1911, ii-1912. *Paratypes* in Indian Museum.

Jenkinsia, Kieff.

Rec. Ind. Mus. IX, 165 (1913).

GENOTYPE, *J. setosipennis* Kieff., n. sp., by original designation.

setosipennis Kieff., *loc. cit.*, 165, ♀ (1913).

Calcutta, 17-ix-09 [*Paiva*]; Bhogaon [*Paiva*]. Two *paratypes* in Indian Museum.

Dasyheliá, Kieff.[1]

Rec. Ind. Mus. IX, 179 (1913).

GENOTYPE, *D. halophila*, Kieff., by original designation.

His view of *gibbosa* is the same as my first impression, that it possesses black femora and tibiae.

More recently, Meijere (Tijd. v. Ent. LVI, 337) considers that both the species accepted by Edwards are distinct from the true *gibbosa*, W., and his other remarks are contingent on the view of *gibbosa* being a yellow-legged species. He notes that Kieffer's *albitarsis* must be different from *gibbosa*, as the former has wholly white tarsi; but though Kieffer actually states this, it is an error, as the paratypes returned by him to the Indian Museum all possess distinctly black tips to all the tarsi.

It is clear, therefore, that two species exist, one with *yellow* femora and tibiae represented by Meijere's Javan and Edwards' Ceylonese specimen (unless the *brown blunt* thorax in the latter should make it distinct, which I doubt, thinking it only a question of personal use of terms or perhaps of actual variation); and one with *black* femora and tibiae, that is Kieffer's *albitarsis*.

Therefore, if *gibbosa* has yellow legs the synonymy will be as given in this catalogue, it it has black legs and is identical with Kieffer's *albitarsis*, the synonymy will be as follows:—

1. *gibbosa*, W. (*Macropeza*).
   Calyptopogon albitarsis, Keiff., Mem. Ind. Mus. II; Brun., Rec. Ind. Mus. VIII, 150.
   Macropeza gibbosa, Edwards, Ann. Mag. Nat. Hist. (8), XII, 202.
2. *species sine nom.* (with *yellow* femora and tibiae).
   Macropeza gibbosa, de Meij., Tijd. v. Ent. L., 210.
   Macropeza javanensis, Edwards, Ann. Mag. Nat. Hist. (8), XII, 202.

Only a reference to the type of *gibbosa* can decide the exact identity of the species.

[1] In Dr. Kieffer's table of genera (Rec. Ind. Mus. IX, 161), *Dasyhelia* falls in two of his principal divisions, his subgenus *Kempia* in that of "empodium well developed", the subgenus *Prokempia* in that of "empodium atrophied." All the species seem characterised by pubescent eyes.

ornaticornis Kieff., Rec. Ind. Mus. IX, 180, ♀ (subgen. *Prokempia*) (1913).
Puri, 13-ix [*Kemp*]. Three *paratypes* in alcohol in Ind. Mus.

longicornis, *id.*, *loc. cit.*, 180, ♀ (subgen. *Prokempia*) (1913).
Katihar, Bengal, 24-ix [*Paiva*]. Several *paratypes* in alcohol in Indian Museum

minima, *id.*, *loc. cit.*, 181, ♂ (subgen. *Prokempia*) (1913).
Calcutta, 29-i-10 [*Annandale*]. Two *paratypes* in Ind. Mus.

calcuttensis, *id.*, *loc. cit.*, 181, ♀ (subgen. *Kempia*) (1913).
Calcutta, 20-viii-07 [*Annandale*]. *Type* in Indian Museum, much damaged, unique.

perplexa, *id.*, *loc. cit.*, 182, ♀ (subgen. *Kempia*) (1913).
Calcutta, 20-viii-07. *Type* in Indian Museum, unique.

Ceratopogon, Mg.

Illig. Mag. II, 261 (1803).

Sch., F. Aust. II, 574: Kieff., Gen. Ins., Fasc. 42, 48: *id.*, Mem. Ind. Mus. II, 182, tab. Ind. spp.: *id.*, Rec. Ind. Mus. VI, 321, tab. spp. nov.: GENOTYPE *C. communis* Mg., as *Tipula barbicornis*, F.

Forcipomyia, Mg., Syst. Besch. 1st Ed. I, 73 (1818): de Meij., Tijd. v. Ent. L, 208, tab. sp. nov. GENOTYPE, *Ceratopogon ambiguus* Mg., by Coquillett's designation.

Apogon, Rond., Dipt. Ital. Prod. I, 175 (1856). GENOTYPE, *Ceratopogon flavipes* Mg., as *hortulanus* Mg., by original designation.

Labidomyia, Steph., Cat. Brit. Ins. II, 239 (1829). GENOTYPE, *Tipula bipunctata* L., by Westwood's designation.

Ceratopogon, *sensu lato*.

trichopus Thoms., Eugen. Resa, 444 (1869).[1]
China. *Type*, location unknown to present author.

agas Rond., Ann. Mus. Gen. VII, 462 (1865).
Borneo. *Type* (presumably) in Genoa Museum.

lignicola Brun., Rec. Ind. Mus. VII, 445, ♂ (1912).
Thano, Dehra Dun, W. Himalayas, 1500 ft., 9-ii-12 [*Imms*]. *Type* in Indian Museum; *co-types* in Forest Zoology coll., Dehra Dun.

Sub-genus **Ceratopogon**, *sensu stricto*.

hirtipes de Meij., Tijd. v. Ent. L, 209, ♂ ♀ (1907).
Semarang [*Jacobson*]; Tosari [*Kobus*], both Java; Peradeniya, 17-xi-11; i-12. *Types* in Amsterdam Museum.

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[1] This species is retained here because it figured in Van der Wulp's Catalogue, but it may more properly belong to the Palaearctic Fauna.

jacobsoni, *id*., *loc. cit.*, L, 212, ♂ ♀ ; pl. v, 8, 9, wing, ♂ ♀ (1907).
Semarang, i [*Jacobson*]; Peradeniya i-12 "attracted by alcohol." *Types* in Amsterdam Museum.

stimulans, *id*., *loc. cit.*, LII, 197, ♀, pl. xii, 12 (1909): *id*., *loc. cit.*, LVI, 334.
Sumatra [*Sahn*]; Semarang, vi [*Jacobson*]. *Type* in Amsterdam Museum.

salmi, *id*., *loc. cit.*, 197, ♂ ♀, pl. xii, 3—6 (1909).
Sumatra [*Sahn*]. *Type* in Amsterdam Museum.

auronitens Kieff., Mem. Ind. Mus., II, 183, ♂, pl. xi, 12, wing (1910).
Base of Dawna Hills, 2-iii 08 [*Annandale*]. Unique *type* in Indian Museum.

macrorhynchus, *id*., *loc. cit.*, 183, ♂, pl. ix, 3, mouth and palpi, 8, antenna, pt. (1910).
Calcutta, vii-07 [*Annandale*]. *Type* belonging to Indian Museum.

albonotatus, *id*., *loc. cit.*, 185, ♂, pl. viii, 10, wing, (1910).
Calcutta, 3-vi-08 [*Annandale*]. Unique *type* in Indian Museum.

Subgenus **Atrichopogon**, Kieff.

Gen. Ins., Fasc. 42, 53 (1906).
Kieff., Rec. Ind. Mus. IX, 174, notes, tab. Ind. spp.
Genotype, *Ceratopogon exilis* Coq., by designation of Coquillett, 1910.

indianus Kieff., Mem. Ind. Mus. II, 185, ♂ (1910).
Calcutta Zoolog. Gardens, viii [*Annandale*]. Unique *type* in Indian Museum.

rivicola Kieff., Rec. Ind. Mus. VI, 324, ♀ (1911).
Barogh, Simla, 10-vi-10 [*Annandale*]; Darjiling, 24-ix [*Brunetti*]. Three *paratypes* in Indian Museum.

flaviceps Kieff., Supp. Ent. Berl. I, 28 (1912).
Formosa.

xanthopus, *id*., Rec. Ind. Mus. IX, 175, ♀ (1913).
Lake Chilka, 4-iii-10 [*Annandale*]. Unique *type* in Indian Museum.

flavipalpis, *id*., *loc. cit.*, 175, ♂ ♀ (1913).
Rajmahal, Bengal, 5-vii-09, *type* ♂ [*Annandale*]; Adra, Manbhum Dist., Chota Nagpur, 12-x-09, *type* ♀ [*Jenkins*]. Unique *types* in Indian Museum.

origenus, *id*., *loc. cit.*, 176, ♀ (1913).
Kurseong, 9-ix-09 [*Annandale*]. Unique *type* in Indian Museum.

sublimatus, *id.*, *loc. cit.*, 176, ♀ (1913).
Kurseong, 6-ix-09 [*Annandale*]. Unique *type* in Indian Museum.

flavellus, *id.*, *loc. cit.*, 177, ♂ ♀ (1913).
Maddathorai, Travancore, 18-xi; Bangalore, S. India, 3000 ft. [*Annandale*]; Dawna Hills, 1-iii-08 [*Annandale*]. Three *paratypes* in Indian Museum.

spurius, *id.*, *loc. cit.*, 177, ♀ (1913).
Madhupur, Bengal, 15-x-09 [*Paiva*]. Unique *type* in Indian Museum.

aterrimus, *id.*, *loc. cit.*, 178, ♀ (1913).
Darjiling, 8-viii-09 [*Jenkins*]. Unique *type* in Indian Museum.

setosipennis, *id.*, *loc. cit.*, 178, ♀ (1913).
Madhupur, Bengal, 16-x-09 [*Paiva*]. Unique *type* in Indian Museum.

brevistilus, *id.*, *loc. cit.*, 178, ♀ (1913).
Kurseong, vii [*D'Abreu*]. Unique *type* in alcohol in Indian Museum.

Subgenus **Prohelia**, Kieff.

Rec. Ind. Mus. VI, 319 (1911).[1]
GENOTYPE, *Ceratopogon decipiens* Kieff., by present designation.
? *Occacta* Poey., Mem. Hist. Nat. Cuba, I, 236 (1851).[2]

decipiens Kieff., Mem. Ind. Mus. II, 182, ♂, pl. xi, 10, wing (*Ceratopogon*) (1910).
Id., Rec. Ind. Mus. VI, 321 (*Prohelia*).
Simla, v [*Annandale*]. Unique *type* in Indian Museum.

cubicularis Kieff., Rec. Ind. Mus. VI, 320, ♂ (1911).
Kurseong, in bedroom, 23-vi-10 [*Annandale*]. Two *paratypes* in Indian Museum.

[1] A little confusion may occur here. In Rec. Ind. Mus. VI, 319 (December 1911), the genus is characterised, but no species is quoted as type. The first species mentioned is "*tetraclada* Kieff." (not described as new), and this is followed by two new species and by *decipiens* Kieff. described in 1910. Now in the Spolia Zeylanica VIII, 1, published January 1912, *Prohelea* is noted as a new subgenus, and *tetraclada* (described for the first time) is the second of five species described as new. On the face of it, it would appear as if the paper in the Spolia Zeylanica had been *written* first, but any way, that in the Rec. Ind. Mus. was undoubtedly *published* first, and therefore the correct original reference to the *genus* must be that of that journal. Following on this reasoning, the type must be either *decipiens* (a previously described species) or one of the two described as new (*cubicularis* and *himalayae*). I propose *decipiens* as genotype on account of being the first described of the species now referred to *Prohelea*. Of course for the two new *species* described in the Spolia paper the original references will be that journal.

[2] Coquillett gives this latter genus as synonymous with *Culicoides* Latr., with *O. furens* Poey, as genotype.

himalayae, *id.*, *loc. cit.*, 320, ♂ (1911).
Kurseong, 22-vi-10, in bedroom [*Annandale*]. Unique *type* in Indian Museum.

ornaticrus Kieff., Spol. Zeyl. VIII, 1, ♀ (1912).
Peradeniya, 9 and 11-viii-10. Two *paratypes* in Indian Museum.

calcarata Kieff., Spol. Zeyl. VIII, 3, ♀ (1912).
Peradeniya, 2-vi-10. Unique *type* in Indian Museum.

noctivaga, *id*, *loc. cit.*, 3, ♀ (1912).
Peradeniya, 19-ix-10, at light. Two *paratypes* in Indian Museum.

theobromae, *id.*, *loc.*, *cit.*, 3, ♀, fig. 1, antenna, pt. (1912).
Peradeniya, 6-vi-10, bred from larvae in decomposed fruit of *Theobroma cacao* L. [*Gravely*].

tetraclada, *id.*, *loc. cit.*, 2, ♀ (1912).
Id., Rec. Ind. Mus. VI, 320 (1911).[1]
Peradeniya, 23-v-10, *type*: Kurseong, 23-vi-10 [*Annandale*]. *Type* in Indian Museum.

Subgenus **Forcipomyia**, Meg. in Mg.[2]

Syst. Besch., 1st Ed., I, 73 (1818).
Kieff., Gen. Ins., Fasc. 42, 52: *id.*, Rec. Ind. Mus. VI, 321 and IX, 166, tab. Ind. spp.
GENOTYPE, *Ceratopogon ambiguus* Mg., by Coquillett's designation, 1910.

vexans de Meij., Tijd. v. Ent. LII, 198, ♂ ♀, pl. xii, 7–10 (1909).
Sumatra [*Dr. Salm*]. *Type* in Amsterdam Museum.
There is a *Ceratopogon vexans*, Staeg, 1839.

albosignata Kieff., Mem. Ind. Mus. II, 184, ♂ (*Ceratopogon*) (1910).
Rangoon, 24-ii-08, *type* [*Annandale*]. *Type* (pinned) in Indian Museum, also *cotypes* in alcohol.
var. **asticta** Kieff., Rec. Ind. Mus. IX, 172, ♀ (1913).
Kurseong, vii [*D'Abreu*]. *Type* in Indian Museum.
var. **variicrus**, *id.*, *loc. cit.*, 172, ♂ (1913).
Port Canning, 5-ii [*Annandale*]. Unique *type* in Indian Museum.

calotricha Kieff., Rec. Ind. Mus. VI, 322, ♀; pl. xiv, 1 wing, pt. (1911).
Kurseong, 22-vi-10, in bedroom [*Annandale*]. Unique *type* in Indian Museum.

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[1] When mentioned in this periodical *tetraclada* was a *nomen nudum*: see footnote 1 on previous page.

[2] De Meijere regards *Forcipomyia* as a subgenus of *Ceratopogon*; Coquillett sinks it in *Culicoides*.

montivaga, *id.*, *loc. cit.*, 322, ♀ (1911).
Darjiling, 28-v-10 [*Brunetti*]. Unique *type* in Indian Museum.

alticola, *id.*, *loc. cit.*, 323, ♀ (1911).
Darjiling, 8-v-10 [*Annandale*]. Unique *type* in Indian Museum.

oriphila, *id.*, *loc. cit.*, 324, ♀ (1911).
Darjiling, 29-v-10 [*Brunetti*]. *Type* in Indian Museum.

macrothrix, *id.*, *loc. cit.*, 325, ♀ (1911).
Kurseong, 20-vi-10 [*Annandale*]. *Type* in Indian Museum.
var. **flaviceps**, *id.*, *loc. cit.*, IX, 173, ♀ (1913).
Kurseong, vii [*D'Abreu*].
Kieffer also describes, (*l. c.* 172) a further, unnamed variety from Kurseong, 4-vii [*Annandale*]: two specimens being in the Indian Museum.

urbicola Kieff., Rec. Ind. Mus. VI, 325, ♂ (1911).
Kurseong, 22-vi-10 [*Annandale*]. *Type* (pinned) in Indian Museum, also *cotypes* in alcohol.

xanthophila, *id.*, *loc. cit.*, 326, ♀ (1911).
Kurseong, 13—16-viii-07 [*Annandale*]. Unique *type* in Indian Museum.

longicalcar Kieff., Spol. Zeyl. VIII, 4, ♀, fig. 2, wing (1912).
Peradeniya, 20-v-10. Unique *type* in Indian Museum.

semipilosus Kieff., *loc. cit.*, 5, ♀ (1912).
Peradeniya, 4-vii-10. Unique *type* in Indian Museum.

sauteri Kieff., Supp. Ent. Berl. I, 27 (1912).
Formosa.

conifera Kieff., Rec. Ind. Mus. IX, 168, ♂ (1913).
Giridih, Bengal, 7-xi [*Kemp*]. Unique *type* in alcohol in Indian Museum.

trinotata, *id.*, *loc. cit.*, 169, ♂ ♀ (1913).
Naini Tal [*Lloyd*]; Simla, 9-v [*Annandale*]; Kurseong, 4-vii; 5-ix [*Annandale*]. Three *paratypes* in Indian Museum.

tristicta, *id.*, *loc. cit.*, 169, ♂ (1913).
Kurseong, 6-iii [*Annandale*]. *Type* belonging to Indian Museum.

psychasta, *id.*, *loc. cit.*, 170, ♂ ♀ (1913).
Kurseong, 4-vii-08, *type* ♂ ♀ [*Annandale*]. Unique *types* in Indian Museum.

confluens, *id.*, *loc. cit.*, 170, ♀ (1913).
Kurseong, vii [*D'Abreu*]. Two *paratypes* in alcohol in Indian Museum.

monticola, *id.*, *loc. cit.*, 171, ♂ (1913).
Kurseong, 4-vii-08 [*Annandale*] *Type* in Indian Museum.

heterocera, *id.*, *loc. cit.*, 173, ♀ (1913).
Darjiling, 8-viii-09 [*Paiva*]. Unique *type* in Indian Museum.

Subgenus **Culicoides**, Latr.

Gen. Crust. et Ins. IV, 251 (1809).
Kieff., Gen. Ins., Fasc. 42, 53 : *id.*, Mem. Ind. Mus. II, 186, tab. Ind. spp. : Annand., Rec. Ind. Mus. IX, 246, notes on four Indian blood-sucking species.
GENOTYPE, *Culex pulicarius* L. (as *punctata*, sp. nov.) by original designation.

guttifer de Meij., Tijd. v. Ent. L, 209, pl. v, 6, wing (1907).
Semarang, i [*Jacobson*]. Unique *type* in Amsterdam Museum.

pungens, *id.*, *loc. cit.*, LII, 200, pl. xii, 11, 12 (1909).
Sumatra. *Type* in Amsterdam Museum.

brevimanus Kieff., Mem. Ind. Mus. II, 187, ♀ (1910).
Calcutta, 20-viii-07 [*Annandale*]. Unique *type* in Indian Museum.

macrostoma, *id.*, *loc. cit.*, 188, ♂ ♀, pl. viii, 4, wing; pl. vi, 14, mouth parts (1910).
Calcutta, ii-08 [*Annandale*]. Unique *type* now completely destroyed.

montivagus, *id.*, *loc. cit.*, 188, ♂, pl. viii, 3, wing (1910).
Simla, 11-v-08 [*Annandale*]. Two *paratypes* in Indian Museum.

opacus, *id.*, *loc. cit.*, 189, ♂ ♀, pl. xi, 3, antenna ♀ (1910).
Calcutta, 6—7-ii-08 [*Annandale*]. Three *paratypes* in Indian Museum.

scapularis, *id.*, *loc. cit.*, 189, ♂ ♀ (1910).
Calcutta, var. dates in January [*Annandale*]. Several *paratypes* in Indian Museum.

nitidulus, *id.*, *loc. cit.*, 189, ♀ (1910).
Calcutta, ii, vi, vii [*Annandale*]; base of Dawna Hills, iii. Several *paratypes* in Indian Museum.

quadrilobatus, *id.*, *loc. cit.*, 189, ♂ ♀, pl. ix, 2, 4, 9, 12, pl x, 8, 10, var. chars. (1910).
Calcutta Zoolog. Gardens, 25-viii-07 [*Annandale*]. *Types* in Indian Museum in Canada balsam.

setiger, *id.*, *loc. cit.*, 190, ♂ ♀, pl. x, 1, 2, 3, var. chars. (1910).
Calcutta, 16-vii-07. *Types* belonging to Indian Museum.

peregrinus, *id.*, *loc. cit.*, 191, ♀, pl. viii, 1, wing (1910).[1]
Puri, 24-ii-08, 2-iii-08 [*Paiva*]. Three *paratypes* in Indian Museum.

[1] See Annandale, Rec. Ind Mus. IX, 246, for blood-sucking notes.

molestus, *id.*, *loc. cit.*, 192, ♂ ♀, pl. viii, 9, wing (1910).
Id., Rec. Ind. Mus. IX, 183, ♀, notes.
Calcutta Zoolog. Gardens, 24-viii-07 [*Annandale*]; Kurseong, vii [*D'Abreu*]. *Type* in alcohol in Indian Museum.

paivai Kieff., Mem. Ind. Mus. II, 193, ♀, pl. viii, 5 (1910).
Puri, Orissa, 2-iii-08 [*Paiva*]. Unique *type* in Indian Museum.

oxystoma, *id.*, *loc. cit.*, 193, ♀, pl. ix, 1, mouth, palpi (1910).
Calcutta Zoolog. Gardens, 25-viii-07 "attacks oxen and deer" [*Annandale*]. *Type* in Indian Museum in Canada balsam.

himalayae Kieff., Rec. Ind. Mus. VI, 326, ♂ ♀ (1911).
Kurseong, 22-vi-10 [*Annandale*]. Three *paratypes* in Indian Museum.

pictiventris, *id.*, *loc. cit.*, 327, ♀ (1911).
Tonglu, Darjiling District, 22-iv-10 [*Beebe*]. Unique *type* in Indian Museum.

formosae Kieff, Supp. Ent. Berl. I, 29 (1912).
Formosa.

indecora, *id.*, *loc. cit.*, 29 (1912).
Formosa.

ceylanicus Kieff., Spol. Zeyl. VII, 5, ♀ (1912).
Peradeniya, 25-vi-10. Unique *type* in Indian Museum.

bilobatus, *id.*, *loc. cit.*, 6, ♂ (1912).
Peradeniya, 14-v-10. Unique *type* in Indian Museum.

xanthocoma Kieff., Rec. Ind. Mus. IX, 182 ♂ (1913).
Puri, Orissa, 13-xi [*Kemp*]. Unique *type* in alcohol in Indian Museum.

kiefferi Patton, Ind. Jour. Med. Res. I, 336, ♂ ♀, pl. xviii, var. chars. (1913).
Madras, Nov. to March; Coimbatore [*Fletcher*].

Palpomyia, Meg. in Mg.

Syst. Besch. 1st Ed. I, 82 (1818).
Kieff., Gen. Ins., Facs. 42, 61: *id.*, Mem. Ind. Mus. II, 194 and Rec. Ind. Mus. VI, 113; IX, 187, tab. Ind. spp.
GENOTYPE, *Ceratopogon flavipes* Mg.

crassinervis de Meij., Tijd. v. Ent. L, 213, pl. v, 10, wing (1907).
Semarang, i [*Jacobson*]. *Type* in Amsterdam Museum.

discolor, *id.*, *loc. cit.*, 214 (1907).
Semarang, i [*Jacobson*]. *Type* in Amsterdam Museum.

luteinervis, *id.*, *loc. cit.* 214, pl. v, 11, wing (1907).
Semarang, i [*Jacobson*]. *Type* in Amsterdam Museum.

burmae Kieff., Mem. Ind. Mus. II, 196, ♀ (1910).
Base of Dawna Hills, 1-iii-08 [*Annandale*]. *Type* in Indian Museum.

filicornis, *id.*, *loc. cit.*, 196, ♀; pl. x, 4—7, 9, var. chars. (1910).
Calcutta, 16-vii-07 [*Annandale*]. *Type* belonging to Indian Museum.

cinerea *id.*, *loc. cit.*, 197, ♀ (1910).
Rajmahal, Bengal, 3-vii-07. Unique *type* in Indian Museum.

pulchripes, *id.*, *loc. cit.*, 198, ♀, pl. xi, 8, wing (1910).
Calcutta, 13-viii-07; Purneah, 6-viii-07. *Paratypes* in Indian Museum.

pictipes, *id.*, *loc. cit.*, 199, ♀ (1910).
Calcutta, 15-viii-07; 13-x [*Annandale*]; Katihar, 4-viii-07. Two *paratypes* in Indian Museum.

interrupta, *id.*, *loc. cit.*, 199, ♀, pl. xi, 16, front tarsi claws (1910).
Calcutta, 10—27-vii-07; 27-viii-07. Several *paratypes* in Indian Museum.

inaequalis, *id.*, *loc cit.*, 200, ♀ (1910).
Purneah, 5-viii-07. Unique *type* in Indian Museum.

roseiventris Kieff., Rec. Ind. Mus. VI, 114, ♀ (1911).
Calcutta, 28-viii-07. Unique *type* in Indian Museum.

leucopogon, *id.*, *loc. cit.*, 114, ♂ (1911).
Calcutta, 1-x-07. Unique *type* in Indian Museum.

disticta, *id.*, *loc. cit.*, 115, ♀, pl. vi, 1, wing (1911).
Calcutta, 3-ix, at light [*Paiva*]; 27-viii, 5-ix, 31-x-07; Dum Dum, near Calcutta, 28-vii [*Lord*]; Madhupur, Bengal, x, at light; Khustea, Bengal, x [*Jenkins*]; Jalpaiguri, N. Bengal, ix, at light; Bhogaon, Purneah, 2-x [*Paiva*]; Chennia, Sunderbunds, Bengal, xi, at light on board launch [*Jenkins*]; Allahabad, viii [*Lord*]. Several *paratypes* in Indian Museum.

tetrasticta, *id.*, *loc. cit.*, 116, ♀ (1911).
Calcutta, 7-ix-07. Unique *type* in Indian Museum.

polysticta, *id.*, *loc cit.*, 117, ♀ (1911).
Calcutta, 7-ix-07. Unique *type* in Indian Museum.

brevispina, *id.*, *loc. cit.*, 117, ♀ (1911).
Calcutta, 27-vii-07. Unique *type* in Indian Museum.

rivularis, *id.*, *loc cit.*, 328, ♀ (1911).
Valley of Sutlej Riv. below Simla, 6-v-10 [*Annandale*]. Unique *type* in Indian Museum.

taitana Kieff., Supp. Ent. Berl. I, 29 (1912).
Formosa.

albinervis Kieff., Rec. Ind. Mus. IX, 187, ♀ (1913).
Pallode, Travancore, 15-xi [*Annandale*]. *Type* in Indian Museum.

photophila, *id.*, *loc. cit.*, 188, ♀ (1913).
Madhupur, Bengal, at light, x [*Paiva*]; Calcutta, at light, vi. *Type* in Indian Museum.

abjuncta, *id.*, *loc. cit.*, 189, ♀ (1913).
Calcutta, 14-ix, at light [*Paiva*]. *Type* belonging to Indian Museum.

disjuncta, *id.*, *loc. cit.*, 189, ♀ (1913).
Bhogaon, N. Bengal, x [*Paiva*]. *Type* belonging to Indian Museum.

Sphaeromyias, Curt.

Brit. Entom., 285, pl. (1829).
Nec Sphaeromyias, Walk.
Xylocrypta Kieff., Bull Ent. Soc. Fr., 69 (1899).
GENOTYPE of *Sphaeromyias* Curt., *Ceratopogon fasciatus*, Mg., as *albomarginatus*, sp. nov. Kieffer's type of *Xylocrypta* is the same species.

bisignata Kieff., Mem. Ind. Mus. II, 200, ♀, pl. xi, 1, tarsus, part (1910).
Purneah, 5-viii [*Paiva*]. *Type* belonging to Indian Museum.

bimacula, *id.*, *loc. cit.*, 201, ♂, pl. xi, 5, tarsus, 7, wing (1910).
Calcutta, 14-viii; Purneah, 5-viii [*Paiva*]. *Types* belonging to Indian Museum.

filitarsis, *id.*, *loc. cit.*, 202, ♀, pl. xi, 9, claws (1910).
Calcutta, 3—13-viii-07. "Near *Macropeza*." *Paratypes* in Indian Museum.

albiditarsis, *id.*, *loc. cit.*, 203, ♀ (1910).
Calcutta. Unique *type* in Indian Museum.

viridiventris, *id.*, *loc. cit.*, 203, ♀, pl. viii, 8, tarsus (1910).
Dawna Hills, 1000 ft., 2—3-iii-08 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

stictonota Kieff., Rec. Ind. Mus., VI, 118, ♂ (1911).
Calcutta (Zoolog. Gardens), 8-iii-01. *Type* belonging to Indian Museum.

inermicrus, *id.*, *loc. cit.*, ix, 186, ♀ (1913).
Rajmahal, Bengal, 5-vii-09 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

Stilobezzia, Kieff.

Rec. Ind. Mus. VI, 118 (1911).
Kieff., *loc. cit.*, IX, 184, notes.
GENOTYPE, *S. festiva* Kieff., by original designation.

festiva Kieff., Rec. Ind. Mus. VI, 118, ♂ ♀, pl. vi, 2—6, var. chars. (1911).
Calcutta, 24-viii, 11-ix, 1—29-x. *Paratypes* in Ind. Mus.

var. **scutellaris** Kieff., Spol. Zeyl. VIII, 7, ♀ (1912).
Peradeniya, 24-v-10. *Type* in Indian Museum, a unique specimen.

inermipes Kieff., Spol. Zeyl. VIII, 8, ♀ (1911).
Peradeniya, 2-vi-10. *Type* in Indian Museum.
A second specimen from Ceylon (? Peradeniya) in same collection.

lineata Kieff., Rec. Ind. Mus. IX, 184, ♂ ♀ (1913).
Madhupur, Bengal, 13-x; 18-x [*Paiva*]; Giridih, Bengal, 7-xi [*Kemp*]; Karmatar, Bengal, 23-x [*Paiva*]. *Paratypes* in Indian Museum.

Serromyia, Meg. in Mg.

Syst. Besch. 1st Ed. I, 66 (1918).
GENOTYPE, *Ceratopogon femorata* Mg., the original species.
Prionomyia, Steph., Cat. Brit. Ins. II, 237 (1829).
GENOTYPE, *Ceratopogon femoratus* Mg., by Westwood's designation.
Ceratolophus, Kieff., Bull. Soc. Ent. Fran. LXVIII, 69 (1899): *id.*, Gen. Ins., Fasc. 42, 59.
GENOTYPE, *Ceratopogon femoratus* Mg., by original designation.[1]
Johannseniella, Will., Jour. N.Yk. Ent. Soc. XV, 1 (1907), *nom. nov.* for *Ceratolophus* Kieff., preocc. Bocoust, 1873.

notatus de Meij., Tijd. v. Ent. L. 210, ♂ ♀. pl. v, 7, wing (*Ceratolophus*) (1907).
Semarang, i [*Jacobson*] *Type* in Amsterdam Museum.
Coquillett considers *Johannseniella* Will., as synonymous with *Serromyia* Mg. and I follow him.

Heteromyia, Say.

Americ. Entom. II, 79 (1825).
Kieff., Gen. Ins., Fasc. 42, 64: *id.*, Rec. Ind. Mus. IX, 183.
GENOTYPE, *H. fasiatus* Say, by original designation.
Pachyleptus, Walk., Ins. Saund. Dipt. pt. 5, 426 (1856)
GENOTYPE, *P. fasciatus* sp. nov., *loc. cit.*

indica Kieff., Rec. Ind. Mus. IX, 183, ♀ (*Pachyleptus indicus*) (1913).
Maddathorai, Travancore, 17-xi-08 [*Annandale*]. *Type* in Indian Museum

Haasiella, Kieff.

Rec. Ind. Mus. IX, 190 (1913).
GENOTYPE, *H. semiflava*, by original designation.

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[1] Kieffer overlooked the fact of *femoratus* having been employed as the type of *Serromyia*

semiflava Kieff., *loc. cit.*, 190, ♀ 1913).
Tinpahar, Bengal, 7-vii-09 [*Annandale*]. *Type*, a unique ♀, in Indian Museum.

Bezzia, Kieff.[1]

Bull. Soc. Ent. Fr. LXVIII, 69 (1899).
Kieff., Gen. Ins., Fasc. 42, 57: *id.*, Mem. Ind. Mus. II, 204 (tab. Ind. spp.) (1910).
GENOTYPE, *Ceratopogon ornatus* Mg., by Kieffer's designation.
Probezzia, Kieff., Gen. Ins., Fasc. 42, 57 (1906).
GENOTYPE, *Ceratopogon venusta* Mg., by Coquillett's designation.

guttipennis de Meij., Nova Guin. Results, 69 (1906).
Papua. *Type* in Amsterdam Museum.

acanthopus de Meij., Tijd. v. Ent. L, 215, ♀, pl. v, 12, wing (1907).
Semarang, i, ii, iii [*Jacobson*]. *Type* in Amsterdam Museum.

flaviventris Kieff., Mem. Ind. Mus. II, 204, ♀ (1910).
Noalpur (Nepal), 22-ii-08. Unique *type* in Indian Museum.

gracilipes, *id.*, *loc. cit.*, 205, ♀ (1910).
Purneah, 4-viii [*Paiva*]. Two *paratypes* in Indian Museum.

var. **lineola**, *id.*, *loc. cit.*, 205, ♀.
Puri, January. *Type* in Ind. Mus., a unique specimen.

var. **analis** Kieff., Rec. Ind. Mus. IX, 196, ♀ (1913).
Balighai, Orissa, 24-x [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

var. **bengalensis**, *id.*, *loc. cit.*, 196, ♀ (1913).
Madhupur, Bengal, 16-x [*Paiva*]. *Type*, a unique specimen, in Indian Museum.

var. **flavescens**, *id.*, *loc. cit.*, 196, ♀ (1913).
Madhupur, Bengal, 13-x [*Paiva*]. *Type* in Indian Museum.

fascialis, *id.*, Mem. Ind. Mus. II, 206, ♂, pl. viii, 11, wing (1910).
Calcutta (Zoolog. Gardens), 25-vii-07 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

lacteipennis, *id.*, *loc. cit.*, 206, ♀ (1910).
Calcutta, 15-viii-07, *type*; 11-viii-07, 12—13-ii-08. *Type* in Indian Museum.

An unnamed variety from Lake Chilka also described in same work. In Indian Museum.

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[1] De Meijere ranks *Bezzia* as a subgenus of *Ceratopogon*: Coquillett (1910) admits it as a good genus.

In Kieffer's last paper (Rec. Ind. Mus. IX) he places *gracilipes*, *nigricans*, and *eucera*, with a number of new species, in the subgenus *Probezzia*, which differs from *Bezzia* in a minor and possibly variable character. All the species are incorporated herein under *Bezzia*. Even in the Genera Insectorum Kieffer lists all the species alphabetically under *Bezzia* without noting to which of the two subgenera *Probezzia* and *Bezzia*, *s. str.* each belongs.

nigricans, *id.*, *loc. cit.*, 207, ♀ (1910).
Id., Rec. Ind. Mus. IX, 193, ♀, notes (*Probezzia*) (1913).
Noalpur, Nepal, 22-ii-08; Calcutta, 27-vii-07 [*Paiva*]; Madhupur, Bengal, 14-x-09 [*Paiva*]; Balighai, Orissa, 24-x-08, *type*; Jalpaiguri, 10-ix-09 [*Annandale*]; Shencottah, 25-x-08 and Quilon, 9-xi-08 [both Travancore and *Annandale*].

armatipes Kieff., Mem. Ind. Mus. II, 207, ♀ (1910).
Puri, January. The unique *type* is now completely destroyed.

rufiventris, *id.*, *loc. cit.*, 208, ♀ (1910).
Calcutta, 10-viii-07 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

trispinosa Kieff., Rec. Ind. Mus. VI, 123, ♀, pl. vi, 9, antenna (1911).
Calcutta, 31-vii-07. *Type* belonging to Indian Museum.

eucera, *id.*, *loc. cit.*, 123, ♀, pl. vi, 10, antenna (1911).
Id., *loc. cit.*, IX, 196, note.
Calcutta, 30-x-07; Trivandrum, Travancore, 14-xi-08 [*Annandale*]. *Type* technically in Indian Museum.
Described originally from the Calcutta specimen, that should be the type, but it is not to be found in the Indian Museum, though the Travancore specimen is there.

albipennis Kieff., *loc. cit*, VI, 124, ♀ (*B. nigricans*, var. *albipennis*) (1911).
Bezzia (*Probezzia*) *albipennis*, Kieff., *loc. cit.*, IX, 195, ♀ (1913).
Calcutta, 10-ix-07, 26-xi; Sara Ghat, Ganges Riv., Bengal, 11-ix [*Annandale*]; Madhupur, Bengal, 16-x [*Paiva*]; Balighai, Orissa, 25-x [*Annandale*]. *Paratypes* in Indian Museum.

vaga, *id.*, Rec. Ind. Mus. IV, 329, ♀ (1911).
Noalpur, Nepal, 22-ii-08, *type*; Madhupur, Bengal, 18-x-09 [*Paiva*]; Igatpuri, Western Ghats, Bombay Presidency, 20-xi-09 [*Annandale*]. *Type* in Indian Museum.

indecora, *id.*, Spol. Zeyl. VIII, 8, ♂ (1912).
Peradeniya, 14-v-10. *Type*, unique, in Indian Museum.

allotropica Kieff, Rec. Ind. Mus. IX, 193, ♀ (*Probezzia*) (1913).
Frasergunge, 12-xi; Basanti, 16 xi [both Sunderbunds and *Jenkins*]; at light on board launch, Bologhatta, Khulna, Ganges Delta, 28-viii, at light on launch; Besondhur, Khulna, 29-viii [both *Jenkins*]. *Paratypes* in Indian Museum.

hamifera, *id.*, *loc. cit.*, 194, ♀ (*Probezzia*) (1913).
Madhupur, Bengal, 15—16-x-09, at light [*Paiva*]; Balighai, Orissa, 25-x-08 [*Annandale*]. *Paratypes* in Indian Museum.
var. **arcuatipes** Kieff., *loc. cit.*, 195, ♀ (*Probezzia*) (1913).
Noalpur, Nepal, 22-ii; Madhupur, Bengal, 14, 16 and 18-x, at light [*Paiva*]; Jalpaiguri, N. Bengal, at light in railway carriage, 10-ix [*Annandale*]; Sara Ghat, Ganges Riv., E. Bengal, 11-ix [*Annandale*]; Balighai, Orissa, 24—25-x; Shencottah, 25-x; Qui-

lon, 9-xi; Kulattupuzha, 19-xi [all three Travancore and *Annandale*]; Igatpuri, Bombay Presid., 20-xi [*Annandale*].

calcuttensis, *id.*, *loc. cit.*, 195, ♀ (*Probezzia*) (1913).
Calcutta, 13-ix-07 [*Annandale*]. *Type* in Indian Museum, unique.

kempi, *id.*, *loc. cit.*, 197, ♀ (1913).
Puri, 13-x [*Kemp*]. *Type*, a unique specimen in alcohol, in Indian Museum.

formosana Kieff., Supp. Ent. Berl. I, 30 (1912).
Formosa.

chrysolopha, *id.*, *loc. cit.*, 31 (1912).
Formosa.

Subgenus **Dibezzia**, Kieff.

Rec. Ind. Mus. VI, 120 (1911).
Genotype, *D. clavata* Kieff., sp. nov., by original designation.

clavata Kieff., Rec. Ind. Mus. VI, 120, ♀, pl. vi, 7, 8, tarsal joints (1911).
Calcutta, 5—9-ix-07. *Paratypes* in Indian Museum.
Kieffer (*l.c.*) also describes a variety from Calcutta.

longistila, *id.*, *loc. cit.*, 121, ♀ (1911).
Calcutta, 29-x-07. *Type*, a unique specimen, in Indian Museum.

brevistila, *id.*, *loc. cit.*, 122, ♀ (1911).
Sylhet, 3-iv-05 [*Hall*]. *Type*, a unique specimen, in Indian Museum.

himalayae, *id.*, *loc. cit.*, VI, 328, ♀ (1911).
Kurseong, 26-vi-10. *Type*, a unique specimen, in Indian Museum.

ceylanica Kieff., Spol. Zeyl. VIII, 6, ♀ (1912).
Peradeniya, 9-vii-10. Two *paratypes* in Indian Museum.

pictipennis Kieff., Rec. Ind. Mus. IX, 191, ♀ (1913).
Shasthancottah, Travancore 8-xi-08 [*Annandale*.] *Type*, a unique specimen, in Indian Museum.

spinigera, *id.*, *loc. cit.* x, 313, ♀ (1914).
Purneah, 5-viii-07. *Type* in Indian Museum.

Leptoconops, Skuse.

Proc. Linn. Soc. N.S. Wales (2) iv, 288 (1890).
De Meij., Tijd. v. Ent. LVIII, 98.
Genotype, *L. stygius*, *id.*, *loc. cit.*, sp. nov.

albiventris de Meij., Tijd. v. Ent. LVIII, 98, ♀, pl. i, 6 (1915).
North Papua.

Subfamily *TANYPINAE.*[1]

Tanypus, Mg.

Illig. Mag. II. 261 (1803).
Sch., F. Austr. II, 615: Kieff., Gen. Ins., Fasc. 42, 40: *id.*, Mem. Ind. Mus. II, 220, tab. Ind. spp.
GENOTYPE, *Tipula cincta* F., by Latreille's designation, 1810.

melanurus Dol., Nat. Tijd. Ned. Ind. X, 405, pl. iv, 1, full insect and wing (1856).
Ambarawa, Java, in houses during the rains. *Type* probably lost.

cyaneomaculatus, *id.*, *loc. cit.*, 406, pl. xi, 2, full insect (1856).
Ambarawa, Java, abundant in bedrooms. *Type* probably lost.

nigrocinctus, *id.*, *loc. cit.*, 406, pl. xi, 3, full insect (1856).
Java. *Type* probably lost.

manillensis Sch., Reise Novara, Dipt., 26 (1868).
Manila. *Type* in Vienna Museum.

signifer de Meij., Nova Guin. Results, 71 (1906).
Papua. *Type* in Amsterdam Museum.

macrocerus Kieff., Mem. Ind. Mus. II, 212, ♀ (*Isoplastus*) (1910).
Id., Rec. Ind. Mus. VI, 333, note (*Pelopia*); *id.*, *loc. cit.*, IX, 160 (*Pelopia*).
Thamaspur, Nepal, xi and 18—20-ii-08; Puri, Orissa, 18-i [*Annandale*]. *Type* in Indian Museum.
A specimen in the same collection from Puri, 18—19-i-08, is noted by Kieffer as a variety.

paivai Kieff., Mem. Ind. Mus. II, 213, ♂ (*Isoplastus*) (1910).
Id., Rec. Ind. Mus. IX, 159, ♂ ♀ (*Pelopia*) (1913).
Bengal, between Manihari and Manshahi, on railway track, 4-viii-07, *type* ♂ [*Paiva*]; Madhupur, Bengal, 14-x-09, *type* ♀ [*Paiva*]; Maniharighat, Ganges Riv., on sand bank, 17-ii [*Chaudhuri*]. *Types* in Indian Museum.

ornatipes Kieff., Mem. Ind. Mus. II, 214, ♀ (1910).
Id., Rec. Ind. Mus., IX, 160, ♂ ♀ (1913).
Balighai, Orissa, 25-x [*Annandale*]; Madhupur, Bengal, 14-x, at light [*Paiva*]; Berhampore Court, Bengal, 12-iv [*Kemp*]; Calcutta, 16-ix; Sonadigee, Ganges Delta, 6-xii, at light [*Jenkins*]; Ernakulam, Cochin State, 4-xi [*Annandale*]. *Paratypes* in Indian Museum. Three *paratypes* of an unnamed variety also in the Museum.

pulchripes Kieff., Mem. Ind. Mus. II, 214, ♂ ♀ (1910).
Calcutta, ii, vii, at light; xii [*Annandale*]; Sonarpur, Bengal, at light, 24-xii; Puri, i, iii. *Paratypes* in Indian Museum.

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[1] For characters and tab. gen. *v.* Kieff., Gen. Ins., Fasc. 42, 33—34 (1906), and Rec. Ind. Mus. IX, 153, under the inadmissible name of Pelopinae.

violaceipennis Kieff., *loc. cit.*, II, 222, ♀ (1910).
Calcutta, 2-ii-08, *type*, 20-iii-07 [*Annandale*]. *Type* in Indian Museum.

albolineatus, *id.*, *loc. cit.*, 224, ♂ (1910).
Mandalay, 12-iii-08 [*Annandale*]. Unique *type* in Indian Museum.

oriplanus Kieff., Rec. Ind. Mus. vi, 125, ♂ (*Isoplastus*) (1911).
Id., *loc. cit.*, IX, 161, ♀ (*Pelopia*) (1913).
Simla, 25-iv-07, *type* ♀ [*Annandale*]. *Type* ♂ apparently lost, *type* ♀ in Indian Museum.

saltatrix, *id.*, Rec. Ind. Mus. VI, 330, ♂ (*Pelopia*) (1911).
Simla, 9-v-10 "in numbers at dusk, males aerial dancing" [*Annandale*]. *Paratypes* in Indian Museum.

brunettii, *id.*, *loc. cit.*, 332, ♂ (*Pelopia*) (1911).
Darjiling, 28-v-10 [*Brunetti*]. *Type*, a unique specimen, in Indian Museum.

riparia, *id.*, *loc. cit.*, 332, ♂ (*Pelopia*) (1911).
Barogh (Simla), 10-v-10 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

himalayae, *id.*, *loc. cit.*, 333, ♂ (*Pelopia*) (1911).
Barogh (Simla), 10-v-10 [*Annandale*]. Two *paratypes* in Indian Museum.

annulatipes Kieff., Spol. Zeyl. VIII, 8, ♀ (*Pelopia*) (1912).
Peradeniya, 17-v-10. Two *paratypes* in Indian Museum.

pallidipes, *id.*, *loc. cit.*, 9, ♀ (*Pelopia*) (1912).
Peradeniya, 29-v-10. *Type* in Indian Museum a unique specimen.

birmanensis Kieff., Rec. Ind. Mus. IX, 159, ♂ (1913).
Mandalay, 11-iii-08 [*Annandale*]. *Type*, a unique specimen, in Indian Museum, reduced to a fragment.

macrochaeta, *id.*, *loc. cit.*, 159, ♀, pl. xii, 25, antenna ♀ (1913).
Kurseong, 27-iii [*Annandale*]. *Type* belonging to Indian Museum.

Clinotanypus, Kieff.

Rec. Ind. Mus. IX, 157 (1913).
GENOTYPE, *Procladius atratus* Kieff., the first species, by present designation.[1]

ornatissimus Kieff., Mem. Ind. Mus. II., 216, ♂ (*Procladius*) (1910).
Id., Rec. Ind. Mus. IX, 158, note (*Clinotanypus*) (1913).
Calcutta, 21-vii, 19-viii [*Annandale*]; Kushtea, Bengal, 7-x [*Jenkins*]; Purnea, vii [*Paiva*]; Madhupur, Bengal, 16, 20-x,

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[1] Kieffer in instituting this genus refers six of his species of *Procladius* to it without nominating any one as type.

at light [*Paiva*]; Nedumangad, Travancore, 14-xi [*Annandale*]; Victoria Gardens, Colombo, 26-iv [*Paiva*]; Mandalay, iii [*Annandale*].

var. described by Kieffer, Rec. Ind. Mus. VI, 126 (1911) from Calcutta, ix [*Lloyd*]; 2-i, at light [*Annandale*]. *Paratypes* of normal form and the variety in Indian Museum.

fumipennis, *id.*, Mem. Ind. Mus. II, 217, ♀ (*Procladius*) (1910).
Calcutta, iii, vi [*Annandale*]; Giridih, Bengal [*Kemp*]. *Type* belonging to Indian Museum. A variety (descr. Kieff., *loc. cit.*), from Puri, iii [*Paiva*], in Indian Museum.

paivai, *id.*, *loc. cit.*, 218, ♀ (*Procladius*) (1910).
Puri, 2-iii-08 [*Paiva*]. *Type* in Indian Museum, unique.

fuscosignatus, *id.*, *loc. cit.*, 218, ♂ ♀, pl. xi, 6, wing (*Procladius*) (1910).
Calcutta Zoolog. Gardens, vii [*Annandale*]; Sylhet, vii [*Hall*]; Purneah [*Paiva*]; Madhupur, x [*Paiva*]; Giridih, Bengal, [*Kemp*].

var. **aterrimus**, *id*, *loc. cit.*, 219, ♀.
Puri, iii [*Paiva*]. Unique.

var. **flavidus**, *id.*, *loc. cit.*, 219, ♀
Bengal, between Bolpore and Rampore, at light in railway carriage; Calcutta, viii [*Annandale*]; Sylhet, vii. [*Lt-Col. Hall*].

var. **vulgaris**, *id.*, Rec. Ind Mus., IX, 157, ♀ (1913).
Madhupur, Bengal, x [*Paiva*]: Tinpahar, Bengal, 7-vii; Bhogaon, N. Bengal, 22-iii [*Paiva*]; Calcutta, 17-vii, 13-viii, 22-ix [*Annandale*]; Kankondigee, Sunderbunds, Ganges Delta, on board launch, at light, 14-xi [*Jenkins*], Bosondhur, Khulna Dist., Ganges Delta, on board launch at light, 29-viii [*Jenkins*]; on board ship 10 miles off Masulipatam, Madras Coast, 4-vi [*Paiva*]; Balighai, Orissa, 26-x [*Annandale*]. An additional form of this var. described (*l.c.*) by Kieffer from Madhupur, Bengal.

var. **jenkinsi**, *id.*, *loc. cit.*, 157, ♀ (1913).
Calcutta, 18-ix; Bosondhur, Khulna Dist., Ganges Delta, on board launch at light, 29-viii [*Jenkins*]; Balighai, Orissa, 25-x [*Annandale*]; Shasthancottah, Travancore, 6-xi [*Annandale*].

var. A further form, unnamed, described by Kieffer (*loc. cit.*, 158) from on board ship 10 miles off Masulipatam, Madras Coast, 4-vi [*Paiva*]. *Paratypes* of all the above varieties and the normal form in the Indian Museum. No *type* set up.

atratus, *id.*, Mem. Ind. Mus. II, 219, ♀ (*Procladius*) (1910).
Sylhet, 22-vii-05 [*Hall*]. *Type*, unique, in Indian Museum.

9-punctatus, *id.*, *loc. cit.*, 219, ♂ (*Procladius*) (1910).
Calcutta Zoological Gardens, iii, vii [*Annandale*]; at light, 2 and 14-viii: 12-ix [all *Annandale*]; Rajmahal, Bengal, vii; between Bolpore and Rampore, at light in railway carriage; Bettiah, Champaran, iii (both Bengal); Mandalay, iii [*Annandale*]; Puri, iii [*Paiva*]. Several *paratypes* in Indian Museum.

Trichotanypus, Kieff.

Ann. Soc. Sci. Brux. XXX, 319 (1906): no species quoted, but one mentioned during same year.

Kieff., Gen. Ins., Fasc 42, 42.
GENOTYPE, *Tanypus posticalis* Lundb. according to Coquillett (1910).

Subgenus **Protenthes**, Johan.

Ent. News Philad. XVIII, 400 (1908).
GENOTYPE, *Tipula cincta* F., as *punctipennis* Mg.

bilobatus Kieff., Mem. Ind. Mus II, 221, ♂ ♀ (*Tanypus*) (1910).
Id., Rec. Ind. Mus. VI, 330 (*Trichotanypus*, subgenus *Protenthes*).
Sylhet, ii [*Hall*]; Calcutta, v, vi, vii, xi [*Annandale*]; Rajshahi, E. Bengal, ii.

microcerus Kieff., Mem. Ind. Mus. II, 224, ♀ (1910).
Puri, 2-iii-08 [*Paiva*]. *Type* in Indian Museum, a unique specimen.
Kieffer describes (Rec. Ind Mus. IX, 155) a variety, also a ♀ from Naini Tal [*Lloyd*]. Three specimens in the Indian Museum.

photophilus Kieff., Nova Guin. Results, 223, ♂ (1910).
Id., Rec. Ind. Mus. IX, 154, ♀ (1913). *Paratypes* in Indian Museum.
Calcutta, i, at light [*Annandale*], 16-ix, at light, 18, 21-vi; 11-vii; 14-viii [*Annandale*]; Asansol, Bengal, 14-ii [*Paiva*, *Caunter*]: Ernakulam, Cochin State, 4-xi [*Annandale*]; Shencottah, Travancore, 25-xi [*Annandale*]; on ship 10 miles off Masulipatam, Madras Coast, 5-vi [*Paiva*]. *Paratypes* in Indian Museum.

Procladius, Skuse.

Proc. Linn. Soc. N.S. Wales (2), IV, 283 (1889).
Kieff., Gen. Ins., Fasc. 42, 38: *Id.*, Mem. Ind. Mus. II, 216, tab. Ind. spp.
GENOTYPE, *P. paludicola* Skuse, by designation of Coquillett (1910).

crux Wied., Analec. Entom., 10 (*Tanypus*) (1824).
Id., Auss. Zweifl. I, 19 (*Tanypus*): Wulp, Notes Leyd. Mus. VI, 250 (*Tanypus*): de Meij., Tijd. v. Ent. LVI, 335 (*Procladius*).

pardalis Dol., Nat. Tijd. Ned. Ind. X, 405, pl. vi, 1 (1856).

ornatus, *id.*, *loc cit.*, XIV, 385, pl. vii, 1 (1897).
Java, Semarang, i, ii, vi, vii [*Jacobson*]. *Type* in Copenhagen Museum.

formosanus Kieff., Supp. Ent. Berl. I, 31 (1912).

bilobatus Kieff., Rec. Ind. Mus. IX, 155, ♂ ♀ (1913).
Asansol, Bengal, 13-ii [*Paiva, Caunter*]. *Types*, a unique pair, in Indian Museum.

inconspicuus, *id.*, *loc. cit.*, 156, ♀, pl. xii, 23, antenna ♀ (1913).
Moulmein, 26-ii [*Annandale*]. *Type* belonging to Indian Museum.

pallidus, *id.*, *loc. cit.*, 156, ♀ (156).
Mandalay, 10-iii, ♀ [*Annandale*]. *Type* belonging to Indian Museum.

obscuripes de Meij., Tijd. v. Ent. LVI, 336, ♀ (1913)
Semarang, ii, iii [*Jacobson*]. *Type* in Amsterdam Museum.

Isoplastus, Skuse.

Proc. Linn. Soc. N.S Wales (2) IV, 279 (1889).
Kieff., Gen. Ins., Fasc. 42, 43: *id.*, Mem. Ind. Mus. II, 210 (tab. Ind. spp.).
GENOTYPE, *I. notabilis* Skuse, the first species, by designation of Coquillett (1910).

annandalei, Kieff., Mem. Ind. Mus. II, 211, ♂, pl. ix, 6, 7, 9, var. chars. (1910).
Calcutta, vii 07 [*Annandale*]. *Type* belonging to Indian Museum.

indicus, *id.*, *loc. cit.*, 212, ♂ ♀ (1910).
Calcutta, i, vii [*Annandale*]; Katihar, vii [*Paiva*]. *Paratypes* in Indian Museum.

setosicornis, *id.*, *loc. cit.*, 213, ♀ (1910).
Bettiah, Champaran, Bengal, 6-iii-08. *Type*, a unique specimen, in Indian Museum.

variipes, *id.*, *loc. cit.*, 215, ♂ (1910).
Mandalay, 11-iii-08 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

photophilus Kieff., Rec. Ind. Mus VI, 126, ♀, pl. vi, 11, antenna (1911).
Katihar, at light, 14-x-07 [*Paiva*]. *Type*, a unique specimen, in Indian Museum.

Subfamily *CHIRONOMINAE*.[1]

Section CLUNIONARIAE.[2]

Nepalia, Kieff.

Rec. Ind. Mus. VI, 348 (1911).
GENOTYPE, *N. filipes*, the original species.

[1] For groups *v.* Kieff., Rec. Ind. Mus. IX, 120.
[2] For table of all genera *v.* Kieff., Rec. Ind. Mus. IX, 121.

filipes Kieff., Rec. Ind. Mus. VI, 338, ♂ (1911).
Noalpur, Nepal, 23-ii-08. The unique *type* is no longer in existence.

Section ORTHOCLADIARIAE.[1]

Metriocnemus, Wulp.

Tijd. v. Ent. XVII, 136 (1874).
Kieff., Gen. Ins., Fasc. 42, 31.
GENOTYPE, *Chironomus albolineatus*, Mg., by Coquillett's designation (1910).
Wulpiella, Kieff., Bull. Soc. Ent. Fran. LXVIII, 66 (1899).

callinotus Kieff., Rec. Ind. Mus. VI, 175, ♂ (1911).
Simla Hills, 25-iv-07 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

fusiger, *id.*, *loc. cit.*, 348, ♂ ♀ (1911).
Simla, 12-v-08 [*Annandale*]. Four *paratypes* in Indian Museum.

Camptocladius, Wulp.

Tijd. v. Ent. XVII, 133 (1874).
Kieff., Gen. Ins., Fasc. 42, 24.
GENOTYPE, *Tipula byssina* Schrk., by Coquillett's designation (1910).

monticola Kieff., Rec. Ind. Mus. VI, 346, ♀, pl. xiv, 9, wing (1911).
Simla, 11-v-08. The unique *type* in the Indian Museum is a mere fragment.

Rhopalocladius, Kieff.

Rec. Ind. Mus. VI, 347 (1911).
GENOTYPE, *R. himalayae*, the original species.

himalayae Kieff., Rec. Ind. Mus. VI, 347, ♂.
Barogh, Simla, 10-v-10 [*Annandale*]. *Type* lost.

Conacladius, Kieff.

Mem. Ind. Mus. II, 242 (1910).
GENOTYPE, *C. flavus*, the original species.

flavus Kieff., Mem. Ind. Mus. II, 242, ♂, pl. xi, 15, head, 13, tip of genitalia (1910).
Calcutta. *Type* belonging to Indian Museum.

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[1] For table of genera *v.* Kieff., Rec. Ind. Mus. IX, 122, and Spol. Zeyl. VIII, 23.

Dolichocladius, Kieff.

Rec. Ind. Mus. VI, 176 (1910).
GENOTYPE, *D. heteropterus* Kieff., the original species.

heteropterus Kieff., Rec. Ind. Mus. VI, 176, ♂ (1910).
Base of Dawna Hills, 4-iii-08 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

Orthocladius, Wulp.

Tijd. v. Ent. XVII, 132 (1874).
Kieff., Gen. Ins., Fasc. 42, 25.
GENOTYPE, *Tipula stercoraria*, De Geer, by Coquillett's designation (1910).

Subgenus **Trichocladius**, Kieff.

Ann. Soc. Sci. Brux. XXX, 356 (1906).
Kieff., Gen. Ins., Fasc. 42, 25; *id.*, Rec. Ind. Mus. VI, 177 (1911).
GENOTYPE, *T. fissicornis* Kieff., the original species.

spatulicornis Kieff., Rec. Ind. Mus. VI, 177, ♂, pl. vii, 33, antenna, 34, genitalia, pt. (1911).
Bengal, between Manihari and Manshahi, on railway track, 4-viii-07. Three *paratypes* in Indian Museum.

pentazonus, *id.*, *loc. cit.*, VI, 345, ♂ (1911).
Thaumaspur, Nepal, 18-ii-08; Tharbani, Nepal, 27-ii-08. Three *paratypes* in Indian Museum.

oriplanus, *id.*, *loc. cit.*, 346, ♂ (1911).
Tonglu, Darjiling, 10,000 ft., 21-iv-10 [*C. W. Beebe*]. *Type*, unique, but much damaged, in Indian Museum.

anomalus, *id.*, *loc. cit.*, IX, 124, ♂ (1913).
Valley of Sutlej River, below Simla, 6-v [*Annandale*]; Darjiling, 8-viii [*Jenkins*]. *Type* belonging to Indian Museum.

Subgenus **Psectrocladius**, Kieff.

Ann. Soc. Sci. Brux. XXX, 356 (1906).
Kieff., Gen. Ins., Fasc. 42, 26; *id.*, Rec. Ind. Mus. VI, 176 (1911).
GENOTYPE, *Orthocladius psilopterus*, Kieff., according to Coquillett (1910).

flavicollis Kieff., Rec. Ind. Mus. VI, 176, ♀ (1911).
Calcutta, 31-i-08 [*Annandale*]. *Type* in Indian Museum, unique.

Subgenus **Dactylocladius**, Kieff.

Ann. Soc. Sci. Brux. XXX, 356 (1906).
Kieff., Gen. Ins., Fasc. 42, 26: *id.*, Rec. Ind. Mus. IV, 174 (1911).
GENOTYPE, *Orthocladius brevicornis*, Kieff., according to Coquillett (1910).

tenuicrus Kieff., Rec. Ind. Mus. VI, 174, ♂ (1910).
Rajshahi, E. Bengal, 6-ii-07 [*Annandale*]. *Type*, unique, in Indian Museum.

ceylanicus Kieff., Spol. Zeyl. VIII, 21, ♂, fig. 8, genitalia tip (1912).
Peradeniya, 14-vii-10. *Type*, unique, in Indian Museum.

Cardiocladius, Kieff.

Spol. Zeyl. VIII, 22 (1912).
nom. nov. for *Thalassomyia* Johann., nec. Sch.
Thalassomyia, Johan., Bull. N.Yk. State Mus. LXVIII, 437, ♂ ♀ (1903): *nec Thalassomyia*, Sch., 1856.

Kieffer sets up *ceylanicus*, sp. nov. as type of his new genus, stating it to be synonymous with Johannsen's, and that the latter is different from Schiner's.[1]

ceylanicus Kieff., Spol. Zeyl. VIII, 22, ♀, fig. 9, flagellum (1912).
Peradeniya, 2-vi-10. *Type* in Indian Museum.

Cricotopus, Wulp.

Tijd. v. Ent. XVII, 132 (1874)
Kieff., Gen. Ins., Fasc. 42, 23.
GENOTYPE, *Chironomus tibialis* Mg., by designation of Coquillett (1910).

carnosus Kieff., Supp. Ent. Berl. I, 32 (1912).
Formosa.

brunettii Kieff., Rec. Ind. Mus. IX, 125, ♂ ♀ (1913).
Kurseong, 6-ix-09, at light [*Annandale*]; Darjiling, 6000 ft., 28-ix-08 and 1-x-07 [*Brunetti*]. Several *paratypes* in Indian Museum.

Section CHIRONOMARIAE.[2]

Tanytarsus, Wulp.

Tijd. v. Ent. XVII, 134 (1874).
Kieff., Gen. Ins., Fasc. 42, 29: *id.*, Mem. Ind. Mus. II, 239, tab. Ind. spp.: *id.*, Rec. Ind. Mus. VI, 166, tab. add. Ind. spp. nov.

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[1] The work in which *Thalassomyia*, Johann., is described is inaccessible in India.

[2] This name is formed to be in keeping with the names of the other two sections admitted by Kieffer, but the term used by that author is *Tendipedariae*, which is inadmissible, being founded on an inadmissible generic name, *Tendipes*. For table of genera in this section, see Kieffer, Rec. Ind. Mus. IX, 126.

Genotype, *Chironomus punctipes* Wied., by Coquillett's designation (1910).

clavatitarsis Kieff., Mem. Ind. Mus. II, 240, ♀, pl. ix, 5, middle tarsus, part (1910).
Calcutta, vii. *Type* belonging to Indian Museum.

setosipennis, *id.*, *loc. cit.*, 240, ♂ (1910)
Calcutta, vii-07 [*Annandale*]. *Type* belonging to Indian Museum.

breviventris, *id.*, *loc. cit.*, 241, ♀ (1910).
Calcutta, vii-07 [*Annandale*]. Type belonging to Indian Museum.

pilosipennis, *id.*, *loc. cit.*, 241, ♀ (1910).
Calcutta, vii-07 [*Annandale*]. *Type* belonging to Indian Museum.

viridis Kieff., Rec. Ind. Mus. VI, 168, ♂ ♀, pl. vii, 25, wing, ♂ (1911).
Puri, 2-iii [*Paiva*]. *Paratypes* in Indian Museum.
Kieffer describes a variety, *loc. cit.*, ix, 152, from Puri, 19-i; 24-ii; 2-iii [*Paiva*]. *Type* in Indian Museum.

hirtipes, *id.*, *loc. cit.*, 168, ♂ (1911).
Sylhet, 27-i-05 [*Hall*]. *Type* in Indian Museum, a unique specimen.

lasiopterus, *id.*, *loc. cit.*, 169, ♂, pl. vii, 26, genitalia, part (1911).
Rajshahi, E. Bengal, 6-ii-07 [*Annandale*]. *Type* belonging to Indian Museum.

confundendus, *id.*, *loc. cit.*, 169, ♂, pl. vii, 27, genitalia (1911).
Port Canning, 21-vii [*Annandale*]; Calcutta, 23-vii [*Lloyd*]. *Paratypes* in Indian Museum.

adjacens, *id.*, *loc. cit.*, 170, ♀ (1911).
Rajshahi, E. Bengal, 6-ii-07 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

semiglaber, *id.*, *loc. cit.*, 170, ♀ (1911).
Calcutta, 30-vii-07, at light [*Annandale*]. *Type* in Indian Museum, a unique specimen.

macrochirus, *id.*, *loc. cit.*, 171, ♀ (1911).
Bhim Tal, 27-ix-06 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

leptogastrus, *id.*, *loc. cit.*, 172, ♂ (1911).
Port Canning, 21-vii-07 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

lasiopus, *id.*, *loc. cit.*, 172, ♀ (1911).
Port Canning, 21-vii-07 [*Annandale*] *Type*, a unique specimen, in Indian Museum
The month of capture is July, not August as quoted by Kieffer.

formosanus Kieff., Supp. Ent. Berl. I, 42 (1912).
Formosa.

lobatus Kieff., Spol. Zeyl. VIII, 18, ♀ (1912).
Peradeniya, 2-vi-10. *Type* in Indian Museum, unique, damaged.

transversalis, *id.*, *loc. cit.*, 19, ♂ ♀, fig. 6, antenna tip (1912).
Peradeniya, 2 and 23-vi-10, *type* ♂ ♀. *Types* in Indian Museum, unique.

prasiogaster, *id.*, *loc. cit.*, 20, ♂ ♀ (1912).
Peradeniya, 30-v-10. *Paratypes* in Indian Museum.

ceylanicus, *id.*, *loc. cit.*, 20, ♀, fig. 7, antenna tip (1912).
Peradeniya, 17 and 19-v-10. *Paratypes* in Indian Museum.

poecilus, *id.*, *loc. cit.*, 21 (1912).
Peradeniya, 13-v-10. Fragments of *type* in Indian Museum, in Canada balsam.

bicornutus Kieff., Rec. Ind. Mus. IX, 151, ♀ (1913).
Giridih, Bengal, 2-xi [*Kemp*]. Two *paratypes* in Indian Museum, in alcohol.

pentatomus, *id.*, *loc. cit.*, 152, ♀, pl. xii, 22, antenna (1913).
Puri, 13-xi [*Kemp*]. *Paratypes* in Indian Museum, in alcohol.

Subgenus **Micropsectra**, Kieff.[1]

indica Kieff., Mem. Ind. Mus. II, 242, ♀ (*indicus*) (1910).
Calcutta, vii-07 [*Annandale*]. *Type* belonging to Indian Museum.

Polypedilum, Kieff.[2]

tripartitum Kieff., Mem. Ind. Mus. II, 231 (*Prochironomus tripartitus*) ♂ ♀ (1910).
Id., Rec. Ind. Mus. IX, 150, notes.
Madhupur, Bengal, 17-x, at light [*Paiva*]; Poradah, E. Bengal, in railway station, 26-vi [*Jenkins*]; Bosondhur, Ganges Delta, 29-viii, on launch at light [*Jenkins*]; Puri Distr., 14-i and 8-xii [*Caunter*]; Kuching, Sarawak, 16-vi [*Beebe*]; on board ship, Suez Canal, 9-x-07; *type* ♂ and ♀ [*Annandale*]. *Types* in Indian Museum.

annulatipes, *id.*, Mem. Ind. Mus. II, 234, ♀ (1910).
Id., Rec. Ind. Mus. IX, 151, ♂ ♀ (1913).
Puri, iii [*Paiva*]; Lake Chilka, at light, iii [*Annandale*]; Khulna Distr., Ganges Delta, on board launch at light [*Jenkins*]. *Paratypes* in Indian Museum.

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[1] I have been unable to trace the origin of this genus.
[2] I have been unable to trace the origin of this genus. Kieffer (Rec. Ind. Mus. IX, 146) gives a table of the Indian species.

fasciatipenne Kieff., Mem. Ind. Mus. II, 238, ♀, pl. xi, 4, antenna tip (*Prochironomus*) (1910).

Id., Rec. Ind. Mus. VI, 135 (*Chironomus*): *id.*, *loc. cit.*, IX, 150 (*Polypedilum*).

Calcutta, i, ii, vi, vii, viii, ix [mostly *Annandale*]. Larva feeds on *Hydra* (*v.* Journ. As. Soc. Bengal (n.s.), II, 1906, p. 112): Ann., Faun. Brit. Ind., Freshwater Sponges, 155; Baini Prashad, Rec. Ind. Mus. XV, 71, anatomy larva of this or an allied species, pl. xxiii, var. chars. *Paratypes* in Indian Museum.

pelostolum Kieff., Supp. Ent. Berl. I, 41 (1912).

Formosa.

cristatum Kieff., Rec. Ind. Mus. IX, 146, ♂ ♀ (1913).

Katihar, N. Bengal, ix [*Paiva*]; Port Canning, 6-xii; Lake Chilka, iii [*Annandale*]. *Paratypes* in Indian Museum.

kempi, *id.*, *loc. cit.*, 147, ♀, pl. xii, 18, antenna (1913).

Puri, 13-xi [*Kemp*]. *Type* in Indian Museum, in alcohol.

angustiforceps, *id.*, *loc cit.*, 148, ♂, xii, 19, genitalia (1913).

Katihar, Bengal, ix [*Paiva*]. *Type* belonging to Indian Museum.

milnei, *id.*, *loc. cit.*, 148, ♂ (1913).

Berhampur, Murshidabad Distr., Bengal, xii [*Milne*]. *Type*, a unique specimen, in Indian Museum.

The only specimen in the Museum, which is marked "*type*," has no *month* given but is dated 1907 only.

purimanus, *id.*, *loc. cit.*, 149, ♂ (1913).

Calcutta, ix [*Lloyd*]. *Type* belonging to Indian Museum.

brumalei, *id.*, *loc. cit.*, 149, ♀, pl. xii, 20, antenna (1913).

Giridih, Bengal, 7-xi [*Kemp*]. Two *paratypes* in alcohol in Indian Museum.

Paratendipes, Kieff.[1]

Rec. Ind. Mus. IX, 126 (1913).

GENOTYPE, unknown to present author.

diagraphis Kieff., Rec. Ind. Mus. VI, 335, ♂ ♀, pl. xiv, 3, genitalia, part (*Tendipes*) (1911).

Simla, 9-v-10; Mundali (Dehra Dun, W. Himalayas), 12-v-10. *Paratypes* in Indian Museum.

melanothorax, *id.*, *loc. cit.*, 335, ♂ ♀, pl. xiv, 2, genitalia, part (*Tendipes*) (1911).

Thamaspur, Nepal, 20-ii-98; Tharbani, 27-ii-08. *Type* belonging to Indian Museum.

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[1] The only characterisation of this genus that I can find is its inclusion in a table of genera of this group, as quoted, but it is not therein given as new. Kieffer gives a table of four Indian species, p. 143.

pelargus, *id.*, *loc. cit.*, IX, 143, ♂ ♀, pl. xii, 16, last 2 joints ♀ antenna (1913).

Calcutta, 29-viii-07, *type*, ♂, 11-xii-07, *type* ♀. *Types* in Indian Museum, the only specimens.

ditaenius, *id.*, *loc. cit.*, 144, ♀ (1913).

Katihar, 14-x-07 [*Paiva*]. The unique *type* in the Indian Museum is a useless fragment.

caunteri, *id.*, *loc. cit.*, 144, ♀ (1913).

Rajmahal, Bengal, 5-vii, at light [*Annandale*]; on board launch at light, Borondhur, Khulna Distr., Ganges Delta, 29-viii [*Jenkins*]; Chennia, 24 Perghs., Sunderbunds, 10-xi [*Jenkins*]; Balighai, near Puri, 23-x [*Annandale*]. *Paratypes* in Indian Museum.

dolens, *id.*, Mem. Ind. Mus. II, 233, ♀ (*Prochironomus*) (1910).
Id., Rec. Ind. Mus. IX, 145, ♂ ♀, pl. xii, 17, genitalia tip (1913).

Calcutta, ii, viii, xi, xii; at light, i; Bettiah, Bengal, iii; Katihar, x [*Paiva*]; Sonapur, Bengal, 24-xii, at light in railway carriage [*Annandale*]; Puri, 2-iii [*Paiva*]. Several *paratypes* in Indian Museum.

A variety from the base of the Dawna Hills, taken in March by Dr. Annandale, noted by Kieffer (Mem. Ind. Mus. II, 234).

Glyptotendipes, Kieff.[1]

GENOTYPE, *G. sigillatus* Kieff., by original designation.

verrucosus Kieff., Rec. Ind. Mus. VI, ♂ ♀ (*Chironomus*) (1911).
Id., *loc. cit.*, IX, 140, note, pl. xi, 11, genitalia tip (*Tendipes*).

Bhim Tal, 25, 27-ix-06 [*Annandale*]; Calcutta, 26-v; 14-vii; 28-xii-07. *Paratypes* in Indian Museum.

Prochironomus, Kieff.[2]

Mem. Ind. Mus. II, 225 (1910).
GENOTYPE unknown to present author.

prussicus Kieff., Mem. Ind. Mus. II, 229, ♂ (1910).

Simla, 12-v-08 [*Annandale*]. *Type*, a much damaged unique specimen, in Indian Museum.

pictiventris, *id.*, *loc. cit.*, 229, ♂ (1910).

Bettiah, Champaran, Bengal, 4-iii-08. *Type*, a unique specimen, in Indian Museum.

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[1] The original description of this genus is unknown to me.

[2] Although Kieffer removes three species, *striatipennis*, *punctatipennis* and *fasciatipennis*, to *Chironomus*, he says nothing about the remainder from which I infer he still considers *Prochironomus* a valid genus.

annandalei, *id.*, *loc. cit.*, 230, ♀, pl. ix, 10, 11, var. chars. (1910).
Calcutta, vii-07 [*Annandale*]. *Type* technically in Indian Museum, but the only specimen there is labelled "Calcutta, ix-07, *type*." An error seems to have crept in somewhere.

stripes, *id.*, *loc. cit.*, 231, ♀ (1910).
Katihar, 4-viii-07 [*Paiva*]. *Type*, a unique specimen, in Indian Museum.
At first considered possibly the ♀ of *albiforceps*, but later (Rec. Ind. Mus. VI, 143) Kieffer admits it as a good species.

clavatipes, *id.*, *loc. cit.*, 232, ♂ (1910)
Bengal, between Manihari and Manshali, on railway track, 4-viii-07 [*Paiva*]. *Type* in Indian Museum, a unique specimen.

graciliforceps, *id.*, *loc. cit.*, 235, ♂ (1910).
Bengal, between Bolpore and Rampore, at light in railway carriage, 3-viii-07 [*Paiva*]. *Type* in Indian Museum, a unique specimen.

curtimanus, *id.*, *loc. cit.*, 235, ♀ (1910).
Mandalay, iii [*Annandale*]. *Type* belonging to Indian Museum.

hallii, *id.*, *loc. cit.*, 237, ♀ (1910).
Sylhet, 9-ii [*Hall*]. *Type* belonging to Indian Museum.

tenuitarsis, *id.*, *loc. cit.*, 237, ♀ (1910)
Rangoon, 25-ii-08 [*Annandale*]; Mandalay, 11-iii-08 [*Annandale*]. Two *paratypes* in Indian Museum.

fimbriatus, *id.*, *loc. cit.*, 238, ♀ (1910).
Tharbani, Nepal, 27-ii-08. Kieffer erroneously quotes November. *Type*, a unique specimen, in Indian Museum.

Chironomus, Mg.

Illig. Mag. II, 260 (1803).
Sch., F. Austr. II, 595 : *Auctt. var.* : Kieff., Gen. Ins., Fasc., 42, 14 : *id.*, Mem. Ind. Mus. II, 225, tab. Ind. spp. : *loc. cit.*, VI, 127 and VI, 333, tab. addit. spp. nov. (as *Tendipes*) : *loc. cit.*, IX, 129, tab. 37 Ind. spp. (as *Tendipes*) : *id.*, Spol. Zeyl. VIII 10, tab. spp.
GENOTYPE, *Tipula plumosa* L., by Latreille's designation.

venustus W., Auss. Zweifl. I, 547 (1828).[1]
China. *Types* in Wiedemann's and Trentepohl's collections.

socius Walk., List Dipt. Brit. Mus. I, 16 (1848).
East India. *Type* in British Museum.

[1] Probably should not be included in oriental lists.

cubiculorum Dol., Nat. Tijd. Ned. Ind. X, 405, pl. v, 2 (1856).
Java. *Type* probably lost.

vicarius Walk., Ins. Saund. Dipt., pt. V, 423, ♂ ♀ (1856).
East India. *Type*, location unknown to present author.

pictus Dol., Nat Tijd. Ned. Ind. XIV, 386, pl. vii, 2 (1857).
Java. *Type* probably lost.

instabilis Walk., Proc. Linn. Soc. Lond. VIII, 103 (1865).
Papua. *Type*, location unknown to present author.

trochanteratus Thoms., Eugen. Resa, 445 (1869).
Manila. *Type*, location unknown to present author.

novaeguineensis de Meij., Nova Guinea Results, V, 69 (1906).
Papua. *Type* in Amsterdam Museum.

camptogaster Kieff, Mem. Ind Mus. II, 227, ♂, pl. xi, 2, abdomen tip (1910)
Calcutta. *Type* belonging to Indian Museum.

longivalvis, *id.*, *loc. cit.*, 228, ♂, pl. xi, 11, genitalia, pt. (1910).
Calcutta. *Type* belonging to Indian Museum.

bipunctatus, *id.*, *loc. cit.*, 228, ♂ (1910).
Id., Rec Ind. Mus. IX. 139, ♀ (*Tendipes*).
Rangoon, 25-ii-08 [*Annandale*]. Two *paratypes* in Indian Museum.

albiforceps, *id.*, Mem. Ind. Mus. II, 231, ♂ (*Prochironomus*) (1910).
Calcutta, 5-i; ii, iii, 18-v; 2-vii; viii, ix, x, xi, xii; Dum Dum, 28-vii [*Lord*]; Bhogaon, Bengal, 2-x; Katihar, Bengal, 4-viii [*Paiva*]; on board launch at light, Port Canning [*Annandale*]; Bologhatta, near Khulna, Ganges Delta, 28-viii and Khulna, 27-viii [both *Jenkins*]; Katihar, viii [*Paiva*]; Mandalay, 12-iii [*Annandale*]; Peradeniya, 17-v-10, at light. *Paratypes* in Indian Museum.

punctatipennis, *id.*, Mem. Ind. Mus 234, ♂ ♀ (*Prochironomus*) (1910).
Id., Rec. Ind. Mus. IX, 138, pl. xi, 10, genitalia (*Tendipes*).
Rajmahal, Bengal, 31-vii-07, *type* ♀, viii; Puri 2-iii-08 [*Paiva*]; Katihar, 4-viii-07, *type* ♂; ix [*Paiva*]; at light on launch, Bosondhur, Khulna Distr., Ganges Delta, 29-viii [*Jenkins*]; Shencottah, Travancore, 25-xi-08 [*Annandale*]. *Types* in Indian Museum, the ♂ a mere fragment.

striatipennis Kieff., Mem. Ind. Mus. II, 326, ♀ (*Prochironomus*) (1910).
Id., Rec. Ind. Mus. VI, 134, ♂ ♀, pl. vi, 12, genitalia tip, (*Chironomus*): *id.*, *loc. cit.*, IX, 138, notes (*Tendipes*).
Bhim Tal, 27-ix-06 [*Annandale*]; Calcutta, 22-xii; Shencottah, Travancore, 25-xi [*Annandale*]; Victoria Gardens, Colombo, 26-iv [*Paiva*] Several *paratypes* in Indian Museum.

speciosus Kieff., Rec. Ind. Mus. VI, 133, ♂ (1911).
Matiana [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

pruinosus, *id.*, *loc. cit.*, 134, ♀ (1911).
Barrackpore, near Calcutta, 11-viii-07 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

nigrosparsus, *id.*, *loc. cit.*, 135, ♀ (1911).
Mandalay, 11-iii-08 [*Annandale*]. *Type*, a unique specimen, in Indian Museum.

ceylanicus, *id.*, *loc. cit.*, 136, 137, ♂ ♀ (1911).
Colombo, vii-1901. *Paratypes* in Indian Museum. Known in Colombo as the "Lake Fly"; see Ind. Mus. Notes, V, 191 and 195.

polystictus, *id.*, *loc. cit.*, 137, ♂ (1911).
Bengal (between Bolpore and Rampore), 3-viii-07, at light in railway carriage [*Paiva*]. *Type* in Indian Museum, a unique specimen.

lobaticeps, *id.*, *loc. cit.*, 138, ♂ ♀, pl. vi, 13, genitalia, tip (1911).
Sylhet, ii [*Hall*]; Bijnor (United Prov., India), i; Calcutta, xi, xii; Port Canning, Bengal, xii. *Paratypes* in Indian Museum.
var. **validus** Kieff., in H. Sauter's Formosa Ausbeute, Tendipedidae (Supp. Ent. 1912, V, 1, p. 311, ♂ ♀) (*Tendipes*)?
Id., Rec. Ind. Mus. IX, 140, ♂ ♀, note (*Tendipes*).
Calcutta, 30-i; iii, iv, 5-xii; Madhupur, Bengal, x; Sonadigee, Ganges Delta, 6-xii, at light; Formosa, ii, iii [*Sauter*]. *Paratypes* in Indian Museum.

lobaticollis Kieff., Rec. Ind. Mus. VI, 139. ♂ ♀, pl. vi, 14, genitalia tip (1911).
Sylhet, ii [*Hall*]. *Paratypes* in Indian Museum

flaviventris, *id.*, *loc. cit.*, 139, ♂ (1911).
Id., *loc. cit.*, IX, 141, note (*Tendipes*).
Puri, 20—21-i-08, *type*; Balighai, near Puri, 26-x-08 [*Annandale*]. *Type* in Indian Museum.

grossipes, *id.*, *loc. cit.*, VI, 141, ♀ (1911).
Calcutta, v, vii [*Annandale*]. Two *paratypes* in Indian Museum.

nigromarginatus, *id.*, *loc. cit.*, 141, ♀ and 344, note (1911).
Id., Spol. Zeyl. VIII, 17, note (*Tendipes*).
"Probably the ♀ of *C. callithorax*" (Kieffer).
Lucknow, iv; Calcutta, i, iii, v, viii, also iii, at light; Port Canning, 21-viii [*Annandale*]; Lake Chilka, iv; Chandan Chowki, United Prov., India, 8-v-07; Kawkereik, Amherst Distr., Lower Burma, 5-iii; Peradeniya, at light, 14-v; 17-v; 17-vi-10.
var. **macrogaster**, *id.*, Rec. Ind. Mus. VI, 142, ♀ (1911).
Maldhun, Naini Tal Distr., 14-ii, United Prov., India; Kuching, Borneo. *Paratypes* of normal form and variety in Indian Museum. The var. *macrogaster* is represented by a unique specimen.

callithorax, *id.*, *loc. cit.*, 142, ♂ (1411).
Lucknow 21-v-07: Bijnor Distr., United Prov., India, var.

locs., xi-07; Sonarpur, Lower Bengal, 24-xii, at light in railway carriage [*Annandale*]; Calcutta, 30-iv-07, at light; 24-vi-07; Rajshahi, E. Bengal, 6-ii-07; Mandalay, 12-iii-08. Several *paratypes* in Indian Museum.

melanostolus, *id., loc. cit.*, 143, ♀ (1911).
Lake Chilka, 7—15-viii-07. *Type* in Indian Museum, a unique specimen.

nigriforceps, *id., loc. cit.*, 143 ♂ (1911).
Chandan Chowki, United Prov., India, 8-v-07. *Type*, a unique specimen, in Indian Museum.

dolichogaster, *id., loc. cit.*, 144 ♂ (1911).
Id., loc. cit., ix, 142, ♂ ♀, pl. xii, 15, genitalia tip (*Tendipes*) (1913)
Calcutta, ii-08 [*Annandale*]; viii. Three *paratypes* in Indian Museum.

seminiger, *id., loc. cit.*, 144, ♂ (1911).
Id., loc. cit., ix, 141, ♂, pl. xi, 13, genitalia (*Tendipes*).
Calcutta, 3—23-iii-07 [*Annandale*]; viii. Several *paratypes* in Indian Museum.

lampronotus, *id, loc. cit.*, 144, ♀ (1911).
Sylhet, 14-iii-05 [*Hall*]. *Type* in Indian Museum, a unique specimen.
Kieffer quotes April (iv) as the date, but though it is not quite certain, it appears to be intended for iii.

longicrus, *id, loc. cit.*, 145, ♂ (1911).
Matiana [*Annandale*]. *Type*, a unique ♂, in Indian Museum.

fuscitarsis, *id., loc. cit.*, 145, ♀ (1911).
Id., Spol. Zeyl. VIII, 17, note (*Tendipes*).
Calcutta. 20-viii; Peradeniya, 2-vi-10; Mandalay, 12-iii-08 (*type*) [*Annandale*]. *Type* in Indian Museum.
Kieffer (Rec. Ind. Mus. IX, 142) queries this as a variety of *lamprothorax*.

callicomus, *id.*, Rec. Ind. Mus. VI, 146, ♂ (1911).
Matiana [*Annandale*]. *Type* in Indian Museum.

lamprothorax, *id., loc. cit.*, 146, ♀ (1911).
Calcutta, vii, viii, ix, xi, xii; Port Canning, vii [*Annandale*]; Katihar, viii; Puri, at light, 24-ii [*Paiva*]; between Bolpore and Rampore, Bengal, at light in railway carriage, 3-viii-07, *type* [*Paiva*]. *Type* in Indian Museum.
var. **radialis**, *id., loc. cit.*, 147, ♀ (1911).
Calcutta, vi, vii, viii. *Paratypes* in Indian Museum.
var. **conjungens**, *id., loc. cit.*, X, 315, ♂ ♀ (1914).
Calcutta, Ind. Mus. gardens, 25-viii-10. *Type* in Indian Museum.

tenerrimus, *id., loc. cit.*, VI, 147, ♂ ♀, pl. vi, 15, genitalia, pt. (1911).

Calcutta, i, ii, iii, vi, viii, often at light [*Annandale*]. Several *paratypes* in Indian Museum.

var. **leucotarsus**, *id.*, *loc. cit.*, 148, ♂ (1911).

Id., *loc. cit.*, VI, 158, var. ♂, pl. vii, 22, genitailia, pt. (1911).

Calcutta, vi, at light, viii-07 [*Annandale*]. Three *paratypes* in Indian Museum.

Another variety of this variety described (*loc. cit.*) from Calcutta, vi, viii, at light.

dolichotomus, *id.*, *loc. cit.*, 149, ♂, pl. vii, 17, genitalia (1911).

Purneah Distr., 5-viii-07 [*Paiva*]. *Type* in Indian Museum, a unique ♂.

callinotus, *id.*, *loc. cit.*, 150, ♂, pl. vii, 18, genitalia, pt (1911).

Bijnor Distr , United Prov , India, 11-ii-07. *Type* in Indian Museum, a unique ♂.

melanophorus, *id.*, *loc. cit.*, 150, ♀ (1911).

Calcutta, 13-vi-07. *Type*, a unique ♀, in Indian Museum. Kieffer, *loc. cit.*, IX, 143, describes a variety (♀) from Rajshai, East Bengal, ii [*Annandale*].

planicollis, *id* , *loc. cit.*, 151, ♀ (1011).

Sylhet, 27-i-03 [*Hall*]. Two *paratypes* in Indian Museum.

breviforceps, *id.*, *loc. cit.*, 151, ♂ ♀ : 342, pl. xiv, genitalia ♂, tip (1911).

Theog, 2-v-07 [*Annandale*]; Dharampur (Simla) [*Annandale*]. Two *paratypes* in Indian Museum.

oriplanus, *id.*, *loc. cit.*, 152, ♂ (1911).

Theog, 2-v-07 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

forficularius, *id.*, *loc. cit.*, 153, ♂, pl. vii, 19, genitalia (1911).

Calcutta, 13-viii-07. *Type* in Indian Museum, a unique specimen.

barbatitarsis, *id.*, *loc. cit.*, 154, ♂ ♀, pl. vii, 20, antenna ♀, 21, genitalia ♂ (1911).

Id., *loc. cit.*, IX, 141 (*Tendipes*).

Calcutta, iv, v, vii, viii, ix, xi, xii; Port Canning, viii, xii; Bettiah, Champaran, Bengal, 4-iii; Lake Chilka, viii; Mandalay, iii [both *Annandale*]. Several *paratypes* in Indian Museum.

var. **semiflavus**, *id.*, *loc. cit.*, 154, ♂.

Calcutta (Zoolog. Gdns.), 21–25-viii-07 [*Annandale*]. Two *paratypes* in Indian Museum.

callichirus, *id.*, *loc. cit.*, VI, 155, ♂ (1911).

Calcutta (Zoolog. Gdns.), 4-v. *Type*, a unique specimen, in Indian Museum.

melanochirus, *id.*, *loc. cit* , 155, ♂ ♀ (1911).

Phagu, 3-v-07 [*Annandale*]. *Types* in Indian Museum, a unique pair.

Kieffer quotes "October," but the inscription (badly written) is intended for May.

melanostictus, *id.*, *loc. cit.*, 156, ♂ (1911).
Calcutta, 1-viii-07 [*Annandale*]. *Type* in Indian Museum, a unique ♂.

callisphyrus, *id.*, *loc. cit.*, 156, ♂ ♀ (1911).
Sylhet, 1-ii; v, vi, xi [*Hall*]. Several *paratypes* in Indian Museum.
var. **dolichomerus**, *id.*, *loc. cit.*, 157, ♀.
Sylhet, 29-i-05 [*Hall*]. *Type* in Indian Museum, a unique specimen.
Kieffer notes another variety in Rec. Ind. Mus. VI, 343, ♂, from Simla, 9-v-10 and Kurseong, 20 vi-10.

aplochirus, *id.*, *loc. cit.*, 157, ♂ ♀ (1911).
Sylhet, 6—8-i-05; 1—10-ii [*Hall*]. Four *paratypes* in Indian Museum.

aploneurus, *id.*, *loc. cit.*, 158, ♀ (1911).
Sylhet, 2-xii-04 [*Hall*]. *Type*, a unique specimen, in Indian Museum.

leptochirus, *id.*, *loc. cit.*, 158, ♂ ♀ (1911).
Id., *loc. cit.*, IX, 141, note.
Kumaon, 22-ix; Calcutta, vii. viii, ix, xii; Port Canning, 6—24-xii; Mandalay, 6—8-i. *Paratypes* in Indian Museum.

psilochirus, *id.*, *loc. cit.*, VI, 159, ♂ (1911).
Id., *loc. cit.*, IX, 141, pl. xii, 14, genitalia tip (*Tendipes*).
Calcutta, 27-xi-07; Port Canning, 21-vii-07, *type* [*Annandale*]. *Type* in Indian Museum.

lasiochirus, *id.*, *loc. cit.*, VI, 159, ♂ ♀ (1911).
Id., *loc. cit*, IX, 141, note (*Tendipes*).
Port Canning, 21-vii-07 [*Annandale*]. *Paratypes* in Indian Museum.

filitarsis, *id.*, *loc. cit.*, VI, 160, ♂ (1911).
Id., *loc. cit.*, IX, 143, ♀ (*Tendipes*) (1913).
Calcutta, 26-vii-08, *type* ♂; 23—31-vii; 31-vii-07, *type* ♀ [*Annandale*]; 26-viii; Port Canning, vii [*Annandale*]; Purneah and Katihar [*Paiva*]; Moulmein, 28-ii [*Annandale*]. *Types* in Indian Museum.

lucernarum, *id.*, *loc. cit.*, VI, 160, ♀ (1911).
Calcutta, vi, viii, at light [*Annandale*]. Two *paratypes* only, both in Indian Museum; a variety determined by Kieffer is in the same collection from Calcutta, 20-viii-07.

calligaster, *id.*, *loc. cit.*, 160, ♂ (1911).
Id., *loc. cit.*, IX, 140, note, pl. xi, 12, genitalia tip (*Tendipes*).
Port Canning, 21-vii-07 (*type*); 6-xii [both *Annandale*]. *Type* in Indian Museum.
var. **vilis**, *id.*, *loc. cit.*, 161.
Calcutta, 9-viii-07, at light [*Annandale*]. *Type*, unique, in Indian Museum.

sexpunctatus, *id.*, *loc. cit*, 161, ♀ (1911).
Calcutta, 15-ii-18 [*Annandale*] *Type*, a unique ♀, in Indian Museum.

callimorphus, *id.*, *loc. cit.*, 162, ♂ (1911).
Dawna Hills, 2—3-iii-08 [*Annandale*] *Type*, a unique ♂, in Indian Museum.

viridiventris, *id.*, *loc. cit.*, 162, ♂ ♀ (1911).
Mandalay, iv; 11—12-iii-08 [both *Annandale*]. *Paratypes* in Indian Museum.

atrosignatus, *id.*, *loc. cit.*, 163, ♀ (1911).
Calcutta, 30-vii [*Annandale*]; ix [*Lloyd*]. *Type* in Indian Museum.

nudipes, *id.*, *loc. cit.*, 164, ♂ (1911).
Calcutta, 10-viii-07 [*Annandale*]. *Type*, a unique ♂, in Indian Museum.

rostratus, *id.*, *loc. cit.*, 164 ♂ (1911).
Sylhet, 3-i-05 [*Hall*]. *Type*, a unique ♂, in Indian Museum.

prasiogaster, *id.*, *loc. cit.*, 165, ♂ (1911).
Sylhet, 26-ii-04 [*Hall*]. *Type*, a unique ♂, in Indian Museum.

chlorogaster (I), *id.*, *loc. cit.*, 165, ♂ (1911).
Mandalay, 12-iii-08 [*Annandale*]. *Type*, a single ♂, in Indian Museum.
N.B.—*Vide chlorogaster* (II), *post.*, p. 78.

semiviridis, *id.*, *loc. cit.*, 166, ♂ ♀, pl. vii, 13, wing, 24, genitalia (1911).
Mandalay, iii; Moulmein, ii [*Annandale*]; Bettiah, Champaran, Bengal, ii; Noalpur, Nepal, ii; Puri, ii [*Paiva*]; iii. *Types* in Indian Museum.

choricus,[1] *id.*, *loc. cit.*, 336, ♂ ♀, pl. xiv, 4. tip of ♀ antenna, 5 tip of genitalia (1911).
Barogh (Simla), ♂ ♂ in air dance at dusk; Sukhwani, 15-ii-08; Dahawangahary Hill, 16-ii-08 (both Nepal); Bijnor Distr., United Prov., India, 24-ii-10. *Paratypes* in Indian Museum.

himalayanus, *id.*, *loc. cit.*, 337, ♂ (1911).
Mundali, Dehra Dun Distr., 10-v-10. *Type*, a unique specimen, in Indian Museum.

fulvescens, *id.*, *loc. cit.*, 338, ♀, pl. xiv, 6, tip of antenna (1911).
Butal, Nepal, 12-ii-08. *Type* belonging to Indian Museum.

polius, *id.*, *loc cit.*, 339, ♂, pl. xiv, 7, ♂ genitalia (1911).
Kasauli, N.W. India, 16-v-08 [*Annandale*]. *Type* belonging to Indian Museum.

[1] All the species from *choricus* to *bipunctatus* are described by Kieffer under the inadmissible generic name *Tendipes*.

nepalensis, *id., loc. cit.*, 339, ♂ ♀ (1911)
Noalpur, Nepal, 23-ii-08; Sicktan, 13-ii-08; Simla, 11-v-08 [*Annandale*]. *Types* belonging to Indian Museum.

macroscelus, *id., loc. cit.*, 340, ♀ (1911).
Dahawangahary Hill, Nepal, 16-ii-08. *Type* belonging to Indian Museum.

stictogaster, *id., loc. cit.*, 341, ♂ (1911).
Simla, 12-v-08 [*Annandale*]. *Type* belonging to Indian Museum.

rufescens, *id., loc. cit.*, 341, ♂ (1911).
Chandan Chowki, United Prov., India, 8-v-07. *Type* belonging to Indian Museum.

sessilis, *id., loc. cit.*, 342, ♀ (1911).
Thamaspur, Nepal, 18-ii-08. *Type* belonging to Indian Museum.

pretiosus, Kieff., Spol. Zeyl. VIII, 11, ♂ ♀, fig. 3, ♂ genitalia (1912).
Peradeniya 2-vi-10, *type* ♂; 31-v-10, *type* ♀; 21-v; 11-vi-10. *Types* in Indian Museum.

sumptuosus, *id., loc. cit.*, 12, ♀ (1912).
Peradeniya, 2-vi-10. *Type* in Indian Museum a unique ♀.

elatus, *id., loc. cit.*, 12, ♀ 1912.
Peradeniya, 2-vi-10. *Type* in Indian Museum, a unique specimen.

superbus, *id., loc. cit.*, 13, ♂ ♀, fig. 4, ♂ genitalia, part (1912).
Peradeniya, 14—29-v; 2-vi-10. *Paratypes* in Indian Museum.

gloriosus, *id., loc. cit.*, 14, ♀ (1912).
Peradeniya, 2?-v-10, at light. *Type* in Indian Museum, a unique specimen.

allothrix, *id., loc. cit.*, 15, ♀, fig. 5, antenna (1912).
Peradeniya, 25-v-10, at light. *Type* in Indian Museum, a unique specimen.

perichlorus, *id., loc. cit.*, 16, ♀ (1912).
Peradeniya, 17-iv-10. *Type* in Indian Museum, a unique ♀.

chlorogaster (II), *id., loc. cit.*, 16, ♀ (1912).
Peradeniya, 17-v-10. *Type*, a unique ♀, in Indian Museum.
Kieffer has previously described a *Chironomus chlorogaster* ♂ (*vide ante*, p. 77). He calls the present form a new species. *Chlorogaster* ♂ is too damaged to be of much use, but the two specimens apparently represent different species.

heptatomus, *id., loc. cit.*, 17, ♀ (1912).
Peradeniya, 2-vi-10. Two *paratypes* in Indian Museum.

hexatomus, *id., loc. cit.*, 18, ♀ (1912).
Peradeniya, 2-vi-10. *Type* in Indian Museum.

variicornis, *id*, *loc. cit.*, 18, ♀ (1912).
Peradeniya, 22-v-10. *Type* in Indian Museum, a unique specimen.

formosae Kieff., Supp. Ent. Berl. I, 35 (1912).
Formosa.

sordidus, *id.*, *loc. cit.*, 36 (1912).
Formosa.

tainanus, *id.*, *loc. cit.*, 36 (1912).
Formosa

formosicula, *id.*, *loc. cit.*, 37 (1912).
Formosa.

prasinellus, *id.*, *loc. cit.*, 37 (1912).
Formosa.

chlorophorus, *id.*, *loc. cit.*, 38 (1912).
Formosa.

chlorostolus, *id.*, *loc. cit.*, 38 (1912).
Formosa.

pelochloris, *id.*, *loc. cit.*, 39 (1912).
Formosa.

glauciventris, *id.*, *loc. cit.*, 40 (1912).
Formosa.

curtitarsis Kieff., Rec. Ind. Mus. IX, 132, ♀ (1913).
Sara Ghat, Ganges Riv., N. Bengal, 23-iii-10, at light [*Annandale*]. *Type* in Indian Museum, a unique specimen.

longipalpis, *id.*, *loc. cit.*, 132, ♂, pl. xi, 4, genitalia, pt. (1913).
Port Canning, 24-xii-07 [*Annandale*] *Type* in Indian Museum, a unique specimen.

brunettii, *id.*, *loc. cit.*, 133, ♀ (1913).
Madhupur, Bengal, 15—16-x-09 [*Paiva*]. Three *paratypes* in Indian Museum.

ornatissimus, *id.*, *loc. cit.*, 133, ♂ ♀ (1913).
Calcutta, 14-xii-07, *type* ♂ : 11-i-08, *type* ♀ [both "at light," and *Annandale*]. *Types* in Indian Museum, a unique pair.

anomalipes, *id.*, *loc. cit.*, 134, ♀ (1913).
Bhogaon, 18-x-07 [*Paiva*]. *Type* in Indian Museum, a unique specimen.

nitidus, *id.*, *loc. cit.*, 134, ♂, pl. xi, 5, genitalia, pt. (1913).
Calcutta, 26-viii-07. *Type* in Indian Museum, a unique specimen.

There is a *C. nitidus* Mg., from Europe.

heterocerus, *id.*, *loc. cit.*, 135, ♀, pl. xi, 6, antenna (1913).
Bettiah, Champaran, Bengal, 4-iii; Calcutta, 13, 30-i; 4-ii; 4-ix. *Paratypes* in Indian Museum.

glabripes, *id.*, *loc. cit.*, 135, ♀ (1913).
Calcutta, 17-xii-07. *Type* in Indian Museum, a unique specimen.

tenuiforceps, *id.*, *loc. cit.*, 136, ♂ ♀, pl. xi, 7, genitalia, pt. (1913).
Calcutta, ix, x, xi. *Paratypes* in Indian Museum.

atrophus, *id.*, *loc. cit.*, 136, ♂, pl. xi, 8, genitalia, pt. (1913).
Calcutta, 11-viii-07. *Type* in Indian Museum, a unique specimen.

orissae, *id.*, *loc. cit.*, 137, ♂ (1913).
Puri, 2-iii-08 [*Paiva*]. *Type* in Indian Museum, a unique specimen.

armatifrons, *id.*, *loc. cit.*, 137, ♂ (1913).
Mandalay, 12-iii-08 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

conifer, *id.*, *loc. cit.*, 137, ♂, pl. xi, 9, genitalia tip (1913).
Mandalay, 13-iii-08 [*Annandale*]. *Type* in Indian Museum, a unique ♂; abdomen now missing.

erythropterus, *id.*, *loc. cit.*, 138, ♀ (1913).
Between Bolpore and Rampore Haut, Bengal, at light, in railway carriage, 3-viii-07 [*Paiva*]. *Type* in Indian Museum, a unique specimen.

glabrimanus, *id.*, *loc. cit.*, 138, ♀ (1913).
In company with *erythropterus*. *Type*, a unique ♀, in Indian Museum.

bipunctatus, *id.*, *loc. cit.*, 139, ♀ (1913)
Rangoon, ii [*Annandale*]. *Type* in Indian Museum.

perileucus, *id.*, *loc. cit.*, x, 314, ♂ ♀ (1914).
Calcutta (Indian Museum gardens), 10—16-vii. *Type* in Indian Museum.

Tripelina, Kieff.

Rec. Ind. Mus. IX, 128 (1913).
GENOTYPE, *T. pallidum* Kieff., the original species.

pallidum Kieff., *loc. cit.*, 128, ♂ ♀ (1913).
Calcutta, 9-xi; 23-xi at light [*Annandale*]. *Paratypes* in Indian Museum.

Family PSYCHODIDAE.[1]

Subfamily *PSYCHODINAE*.

Psychoda, Latr.

Précis gen. Ins. 152 (1796).
Sch. Fauna Austr. II, 635: Brun., Rec. Ind. Mus. II, 369, notes; iv, 289 (tab. Ind. spp.); 291, notes: *id.*, Fauna Brit. Ind. Dipt. I, 218.

[1] For general family notes see Brun., Rec. Ind. Mus. IV, 289, and Fauna, 196.

Trichoptera Mg., Illig. Mag. II, 261 (1803).
Tinearia Schlnbrg. Gen. des mouches (1803), pl. 40, fig. 1, *a*, *b*, *c*, fig. 2, *b*, *d*.
GENOTYPE, *Tipula phalaenoides*, L.

bengalensis Brun., Rec. Ind. Mus. II, 371, ♂ ♀, pl. xxiv, 1, wing, 2, antenna, 3, ♂ genitalia (1908).
Id., *loc. cit.*, IV, 295 (localities): *id.*, Fauna Brit. Ind. 229, ♂ ♀, pl. iv, 6, antenna, 8, gentitalia ♂.
India, common in many localities for the greater part of the year, E. and W. Himalayas up to 8000 ft.; Peradeniya, 8-vi-10; Moulmein, 25-ii-08; Tenasserim, iii; Rangoon iii. *Types* in Indian Museum.

distincta, *id.*, Rec. Ind. Mus. II, 372, ♀, pl. xxiv, 4, wing, 5, antenna (1908).
Id., *loc. cit.*, IV, 298: *id.*, Fauna Brit. Ind. 225, ♀, pl. iv, 12, wing, 13, antenna.
Sylhet, 1-i-05 [*Hall*]. *Type* in Indian Museum.

albonotata, *id.*, Rec. Ind. Mus. II, 373, ♀, pl. xxiv, 7, wing (1908).
Id., *loc. cit.*, IV, 298: *id.*, Fauna Brit. Ind. 224, ♀.
Calcutta, 5—6-i-08 [*Annandale*], vii; Sylhet, January [*Lt.-Col. Hall*]. *Type*, a unique specimen, in Indian Museum.

albonigra, *id.*, Rec. Ind. Mus. II, 374, ? ♀ (1908).
Id., *loc. cit.*, iv, 295: *id.*, Fauna Brit. Ind. 228.
Calcutta [*Annandale*]. *Type* in Indian Museum.

nigripennis, *id.*, Rec. Ind. Mus. II, 376, ♂ ♀, pl. xxiv, 8, antenna (1908).
Id, *loc. cit.*, IV, 297 (localities): *id.*, Fauna Brit. Ind., 232, ♂ ♀, pl. iv, 16, flagellum.
India, common from April to August in many Indian localities, hills and plains; Travancore, xi; E. and W. Himalayas up to 9000 ft., the next commonest species after *bengalensis*. *Types* in Indian Museum.

vittata, *id.*, Rec. Ind. Mus. II, 377, ♀ (1908).
Id., *loc. cit.*, IV, 298, ♂: *id.*, Fauna Brit. Ind., 233, ♂ ♀.
Calcutta, 11—26-vii-08; 16-xi-08; 11-vi to 2-vii-08 [*Annandale*]; Maddathorai, Travancore, 18-xi-08, *type* ♂. *Type* in Indian Museum.

geniculata, *id.*, Rec. Ind. Mus. IV, 294, ♀ (1911).
Id., Fauna Brit. Ind., 227, ♀.
Peradeniya, x-10 [*Green*]. *Type*, a unique ♀, in Indian Museum.

distans, *id.*, Rec. Ind. Mus. IV, 296, ♀ (1911).
Id., Fauna Brit. Ind., 230, ♀.
Maddathorai, Travancore, 16-xi-08 [*Annandale*]. *Type*, a unique ♀, in Indian Museum.

albopicta, *id.*, Rec. Ind. Mus. IV, 296, ♀ (1911).
Id., Fauna Brit. Ind., 231, ♀.
Pusa, 8-i; Ceylon. *Type*, a unique ♀, in Pusa collection.

fulvohirta, *id.*, Rec. Ind. Mus. IV, 297, ♀ (1911).
Id., Fauna Brit. Ind., 233, ♀.
Darjiling, 7-viii-09, *type* [*Paiva*]; Kurseong, 26-vi-10 [*Annandale*]. *Type* in Indian Museum.

orbicularis, *id.*, Rec. Ind. Mus. IV, 298, ♀ (1911).
Id., Fauna Brit. Ind., 231, ♀.
Pusa, 21-xii-08. *Type*, a unique ♀, in Pusa collection.

decora Brun., Rec. Ind. Mus. IV, 299, ♀ (1911).
Id., Fauna Brit. Ind., 226, ♀.
Tenmalai (Travancore), 22-xi-08 [*Annandale*]. *Type*, unique, in Indian Museum.

maculipennis Brun., Rec. Ind. Mus. IV, 299, ? ♂ (1911).
Id., Fauna Brit. Ind., 223, ? ♂.
Peradeniya, 17-vi-10 [*Green*]. *Type*, a unique specimen, in Indian Museum.

transversa Brun., Rec. Ind. Mus. IV, 300, ? ♀ (1911).
Id., Fauna Brit. Ind., 226, ? ♀.
Kurseong, 20-vi-10 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

hirtipennis Brun., Rec. Ind. Mus. IV, 300, ♀ (1911).
Id., Fauna Brit. Ind., 227, ♀.
Kurseong, 5-ix-09 (*type*); Bangalore, 15-x-10; Maddathorai, 18-xi-08; Trivandrum, 12—13-xi-08 [last three *Annandale*]; Calcutta Botanical Gardens, 27-xi-10 [*Gravely*]. *Type* in Indian Museum.

apicalis Brun., Rec. Ind. Mus. IV, 301, ? ♀ (1911).
Id., Fauna Brit. Ind., 223, ? ♀.
Maddathorai, 16-xi-08 [*Annandale*]. *Type*, apparently a female, in Indian Museum, a unique specimen.

notatipennis Brun., Rec. Ind. Mus. VIII, 151, pl. vi, 4, wing (1913).
N.E. Indian Frontier. *Type*, sex uncertain, a unique specimen, in Indian Museum.

Pericoma, Walk.

Ins. Brit. Dipt. 256 (1856).
Sch. F. Austr. II, 632: Brun., Rec. Ind. Mus. IV, 301, tab. orient. spp.: *id.*, Fauna Brit. Ind. I, 234.
GENOTYPE, *Trichoptera fasciata* Mg., by Coquillett's designation, 1910.

spinicornis Brun., Rec. Ind. Mus. II, 378, ♂; pl. xxiv, 9, antennal joint, 10, genitalia ♂, 11, wing (*appendiculata*) (1908).
Id., *loc. cit.*, iv, 304, locs.: *id.*, Fauna Brit. Ind., 238, ♂ ♀; pl. iv, 4, base of antenna, 15, wing.
appendiculata, Brun., Rec. Ind. Mus. II, 379 (1908).

E. and W. Himalayas, not uncommon from early May to early October in many localities. Siliguri, base of Darjiling Hills, 18—20-vii-07 [*Hodgart*]. *Types* in Indian Museum.

annandalei Brun., Rec. Ind. Mus. II, 380, ♀ (1908).
Id., loc. cit., 304: *id.*, Fauna Brit. Ind., 237, ♀.
Kurseong, 5-vii-08, *type*; 22—29-vi-10 [both *Annandale*]. *Type* in Indian Museum.

margininotata Brun., Rec. Ind. Mus. II, 381, ♂ ♀; pl. xxiv, 12, wing (1908).
Id., loc. cit., iv, 304: *id.*, Fauna Brit. Ind., 240, ♂ ♀.
P. bella, Brun., Rec. Ind. Mus. II, 383, ♀ (1908).
P. margininotata, var. *bella*: *id.*, Fauna Brit. Ind., 241, ♀.
Simla, 25-iv-07; 11-v-08; 9—10-v 09; Phagu, 11—15-v-09 [all *Annandale*]; Darjiling, 26-v-10, end of Sept. and Oct. 1, 08 (including *type* of *bella*) [both *Brunetti*]; Kurseong, 25—27-vi-10 [*Annandale*]; Pallode, Travancore, 15-xi-08 [*Annandale*]. Types of *margininotata* (typical form) and *bella* var. in Indian Museum.

lacteitarsis Brun., Rec. Ind. Mus. II, 382, ♀ (*margininotata*, var. *lacteitarsis*), (1908).
lacteitarsis, id., loc. cit., IV, 307: *id.*, Fauna Brit. Ind., 245.
Kurseong, 4-vii-08, *type*; Quilon, Travancore, 9-xi-08 [both *Annandale*]. *Type* in Indian Museum.

gilvipes Brun., Rec. Ind. Mus. II, 382, ♀ (*margininotata*, var. *gilvipes*), (1908).
gilvipes, id., loc. cit., iv, 308, notes: Fauna Brit. Ind., 246, ♀.
Calcutta, 28-vii-08, *type*, 2-viii-08, 17—18-vii-08, 9-ii-10, 8—23-viii-08, 1—26-ix-08 [all *Annandale*]; Madhupur, Bengal, 17-x-09, at light [*Paiva*]; Ernakulam, Cochin, 4-xi-08; Quilon, 9-xi-08 [both *Annandale*]. *Type* in Indian Museum.

squaminervis Brun., Rec. Ind. Mus. IV, 303, ? ♀ (1911).
Id., Fauna Brit. Ind., 237, ? ♀.
Kurseong, 4-viii-08 [*Annandale*]. Unique *type* in Indian Museum.

metatarsalis Brun., Rec. Ind. Mus. IV, 305, ♀ (1911).
Id., Fauna Brit. Ind., 243, ♀.
Simla, 9-v-09, *type*; 12-v-09; Phagu, 11-v-09 [all *Annandale*]. *Type* in Indian Museum.

mixta Brun., Rec. Ind. Mus. IV, 306, ♀ (1911).
Id., Fauna Brit. Ind., 244, ♀.
Simla, 6-v-09 [*Annandale*]. Unique *type* in Indian Museum.

proxima Brun., Rec. Ind. Mus. IV, 308, ? ♂ (1911).
Id., Fauna Brit. Ind., 245, ? ♂.
Peradeniya, viii-1910 [*Green*]. Unique *type* in Indian Museum.

impunctata Brun., Rec. Ind. Mus. IV, 309 (1911).

Id., Fauna Brit. Ind., 247.

Tenmalai, Travancore, 22 xi-08 [*Annandale*]. The unique *type* in Indian Museum, of uncertain sex.

unicolor Brun., Rec. Ind Mus. IV, 309 (1911).

Id., Fauna Brit. Ind., 247.

Kurseong, xi-1910 [*D'Abreu*]. Unique *type*, of uncertain sex, in Indian Museum.

indica Eaton., Trans. Linn. Soc. Lond. XV, 424, figs. (1913).

India, also the Seychelles.

Brunettia, Annand.

Rec. Ind. Mus. V, 141 (1910).
Brun., Rec. Ind. Mus. IV, 310 : *id.*, Fauna Brit. Ind., 248.
Diplonema, Annand. (*nec* Loew.), Rec. Ind. Mus. IV, 39 (1910).

superstes Annand., Jour. Asiat. Soc. Beng. (new ser.) IV, 353, ♂ ♀; pl. xii, var. chars. [*Diplonema*] (1908).

Id., Rec. Ind. Mus. V, 142, ♂ ♀, redescr: fig. genitalia ♂; pl. xii, var. chars. [*Brunettia*] (1910).

Brun. Fauna Brit. Ind., 249, ♂ ♀, fig. 34 (♂ genitalia), 35 venation, pl. iv, 1, full insect, 3 head.

Kurseong, vi-vii [*Annandale*]. *Types* in Indian Museum.

indica Eaton, Trans. Linn. Soc. Lond. XV, 424, ♂ ♀; pl. xxvi, fig. 2, *a—f*; fig. 3, *a—f* (1913).

Matheran, Western Ghats, Bombay, 800 metres, 8-vii-02 [*Biro*].

Parabrunettia, Brun.

Rec. Ind. Mus. IV, 310, 311, tab. spp. (1911).
Brun. Fauna Brit. Ind., 251.
GENOTYPE, *Psychoda squamipennis*, Brun., by original designation.

squamipennis Brun., Rec. Ind. Mus. II, 375, ♀ (*Psychoda*), (1908).

Id., Fauna Brit. Ind., 252, ♀.

Calcutta, 5-viii-07 [*Annandale*]. Unique *type* in Indian Museum.

argenteopunctata Brun., Rec. Ind. Mus. II, 375, ♀; pl. xxiv, 6, wing (*Psychoda*), (1908).

Id., Fauna Brit. Ind., 254, ♀.

Calcutta, 27-viii-07. Unique *type* in Indian Museum.

atrisquamis Brun., Rec. Ind. Mus. II, 376, ♀ (*Psychoda*), (1908).

Parabrunettia atrisquamis, *id.*, *loc. cit.*, iv, 312 : Fauna Brit. Ind., 253, fig. 36, wing, pl. iv, 2, full insect.

Brunettia travancorica, Annand., Rec. Ind. Mus. V, 144, ♀; pl. xii, var. chars. (1910).

Calcutta, 22-vii-08, *type* ♀ [*Annandale*]; Peradeniya, 18-vii, 14-viii and x-1910 [*Green*]; base of Western Ghats, Travancore,

xi-08 (*type* of *travancorica*), xi-08 [*Annandale*]. *Types* in Indian Museum.

albohumeralis Brun., Rec. Ind. Mus. IV, 312, ♀ (1911).
Id., Fauna Brit. Ind., 254.
Peradeniya, ix—x-10 [*Gravely*]. *Type* in Indian Museum.

novemnotata Brun., Rec. Ind. Mus. IV, 313, ♀ (1911).
Id., Fauna Brit. Ind. 255, ♀.
Puri, Orissa, 12-xi-10 [*Annandale*]. Unique *type* in Indian Museum.

flavicollis Brun., Rec. Ind. Mus. IV, 314, ♂ (1911).
Id., Fauna Brit. Ind., 256, ♂.
Peradeniya, viii-10. Unique *type* in Indian Museum.

longichaeta Brun., Rec. Ind. Mus. IV, 314, ♂ (1911).
Id., Fauna Brit. Ind., 256, ♂.
Maddathorai (Travancore), 17-xi-08 [*Annandale*]; Bangalore, 3000 ft., x [*Annandale*]. *Type* in Indian Museum.
Referred doubtfully and provisionally to the present genus.

Subfamily *PHLEBOTOMINAE*.[1]

Phlebotomus, Rond.

Mem. prima ditt. Ital., 12 (*Flebotomus*), (1840).
Phlebotomus, Sch. F. Austr. II, 630: Brun., Fauna Brit. Ind., 199; tab. Ind. spp. 203: Annand., Rec. Ind. Mus. IV, 43, tab. Ind. spp.: Spol. Zeyl. VII, 57, notes, tab. spp. (incorrect): *l.c.*, VII, 159 (corrected table): Alcock, Entom. for Med. Officers, 119 (brief description of oriental species).
Cyniphes, G. Costa, Ann. Accad. Aspir. Natural I, 4 (1843).
Hebotomus, Rond., Ann. So. Ent. Fr. (2), I, 264 (1843).
Haemasson, Loew, Stett. Ent. Zeit. V, 115 (1844).
GENOTYPE, *Bibio papatasii*, Scop.

papatasii Scop., Deliciae Faun. Flor. Insul. I, 55, pl. xxii, fig. B (*Bibio*), (1786): Sch. F. Austr. II, 630: Grassi, Mem. So. Ital. Sci. (3) XIV, 353 (copious descriptions and figs., also life-history) (1907): Annand., Rec. Ind. Mus. IV, 51, ♂ ♀ redescr., pl. iv, 4, wing; pl. vi, 2, ♂ genitalia: Newstead, Bull. Ent. Res. II, 76; Brun., Fauna Brit. Ind. 211, ♂ ♀, figs. 26—31, var. chars.: Summers, Jour. Lond. Sch. Trop. Med. II, 105, fig. ♂, genitalia.
Flebotomus papatasii, Rond., Mem. Ditt. Ital., 13, pl. (1840).

[1] For subfamily characters see Brun., Rec. Ind. Mus. IV, 280 and Fauna Brit. Ind. 199.

Hebotomus, *id.*, *id.*, Ann. So. Ent. Fran. (2) I, 265, pl. x, 1—4 (1843).

Cyniphes molestus, Costa, Ann. Accad. Aspir. Nat I, 4 (1843).

Haemasson minutus, Loew (*nec* Rond.), Stett. Ent. Zeit. V, 115, pl. i, 1—5 (1844).

? *Phlebotomus angustipennis*, de Meij. Tijd. v. Ent., LII, 202, pl. xii, 14, wing (veins incorrectly numbered), (1909).

Phlebotomus sp., Howlett, in Lefroy's Indian Insect Life, 560, fig. 359, ♂ genitalia (1909).

Rawalpindi, Chitral, 6000 ft., Quetta, Miranshad, N.W. Frontier [*Walton*]; Punjab; Poona, Kirkee (near Bombay), viii-07; Lahore; North Bengal, common in April; Pusa. It also occurs in South Europe, Palestine, Egypt and elsewhere. *Type*, Prof. Bezzi informs me this is no longer in existence. That of *angustipennis* is in the Amsterdam Museum.

minutus Rond., Ann. So. Ent. Fran. (2), I, 263 (1843).

Brun., Fauna Brit. Ind., 206, ♂ ♀ (1912): Alcock, Jour. Lond. Sch. Trop. Med. I, 205 (♀ dimorphism): Summers, *loc. cit.* II, 106: Howlett, Ind. Jour. Med. Res. I, 34.

babu, Annand., Rec. Ind. Mus. IV, 49, ♂ ♀, pl. iv, 1, wing, pl. vi, 3, 3*a*, ♂, genitalia (1910).

babu var. *niger*, Annand., Rec. Ind. Mus. IV, 320 (1911): Summers, Jour. Lond. Sch. Trop. Med. II, 109.

Phlebotomus sp., Howlett, in Lefroy's Indian Insect Life, 559, fig. 358 (1909).

India, "probably all over the plains of India" [*Annandale*]; Rawalpindi, September [*C. W. Mason*]; Quetta, Chitral, Allahabad, October [*Imms*]; Rajmahal, on the Ganges, July; Asansol, Purneah, Pusa [*Howlett*]; Madhupur, Puri, Calcutta (all the year); Port Canning, Igatpuri, Bombay (Western Ghats), November; Poona, Kirkee, Rambha (N.E. Madras); Trivandrum, Pallode and Maddathorai (all in Travancore) in November; Peradeniya. It also occurs in South Europe. *Type* in Florence Museum; *types* of *babu*, ♂ ♀, in Indian Museum.

argentipes Annand. and Brun., Rec. Ind. Mus. II, 101, ♂ ♀, fig. wing (veins incorrectly numbered), (1908)

Annand., *loc. cit.*, IV, 44, ♂ ♀, redescr. fig. 4 (p. 42), ♂ genitalia, pt; pl. iv, 3, wing; pl. vi, 6, ♂ genitalia: Brun., Fauna Brit. Ind., 207, ♂ ♀, pl. iv, 5, ♂ genitalia: Summers, Jour. Lond. Sch. Trop. Med. II, 108.

P. marginatus, Annand., Spol. Zeyl. VII, pt. xxvi, 62, ♀, fig. 7, wing (1910).

P. argentipes var. *marginatus*, Brun., Fauna Brit. Ind., 209, ♀: Summers, Jour. Lond. Sch. Trop. Med. II, 109.

India, generally distributed, found in Calcutta at least all the year round; Peradeniya, iii, vi, vii. *Types* of *argentipes*, ♂ ♀ and *type* of *marginatus*, a unique ♀, in the Indian Museum.

perturbans de Meij., Tijd. v. Ent. LII, 201, pl. xii, 13, wing (veins incorrectly numbered), (1909).

Annand., Rec. Ind. Mus. IV, 47, ♂ ♀, redescr. pl. v, 3, wing; pl. vi, 5, 5*a*, 5*b*, ♂ genitalia (1910): Brun., Fauna Brit. Ind., 205, ♂ ♀, pl. iv, 11, ♂ genitalia: Summers, Jour. Lond. Sch. Trop. Med. II, 112.

Java; Sukna (base of Darjiling Hills), 1—3-vii, common "at light" [*Annandale*]. *Type* in Amsterdam Museum.

major Annand., Rec. Ind. Mus. IV, 46, ♂, pl. v, 4, wing; pl. vi, 4, ♂ genitalia (1910): Brun., Fauna Brit. Ind., 210, ♂, pl. iv, 7, ♂ genitalia: Summers, Jour. Lond. Sch. Trop. Med., II, 110.

Phlebotomus sp., Giles, Gnats or Mosquitoes (2nd ed.), 5, fig. 2 (1902).

East and West Himalayas from base up to 8000 ft.; Naini Tal, vii; Simla vii; Kurseong, iv to vii, base of Nepalese Himalayas; Paresnath, W. Bengal, iv. *Type* in Indian Museum.

var. *griseus*, Annand., Rec. Ind. Mus. IV, 320 (*grisea*), (1911).

Brun., Fauna Brit. Ind., 211: Summers, Jour. Lond. Sch. Trop. Med. II, iii.

Kurseong, vi-1910 [*Annandale*]. *Type* in Indian Museum.

var. *perniciosus*, Newstead, Bull. Ent. Res. II, 70, ♂ ♀ (as a good species) (1911).

Brun., Fauna Brit. Ind., 211, ♂ ♀: Summers, Jour. Lond. Sch. Trop. Med., II, 107. This variety is recorded from Malta.

malabaricus Annand., Rec. Ind. Mus. IV, 48, ♂ ♀, pl. v, 1, head, 2, wing; pl. v, 1, ♂ genitalia (1910).

Brun., Fauna Brit. Ind., 214, ♂ ♀: Summers, Jour. Lond. Sch. Trop. Med. II, 111.

Travancore (var. locs.), "at light", xi-08 [*Annandale*]. *Types* in Indian Museum.

himalayensis Annand., Rec. Ind. Mus. IV, 50, ♂ ♀, pl. iv, 2, wing; pl. vi, 7, ♂ genitalia (1910).

Brun., Fauna Brit. Ind., 204, ♂ ♀, pl. iv, 10, ♂ genitalia: Summers, Jour. Lond. Sch. Trop. Med. II, 109.

East and West Himalayas, 4000 to 7000 ft.; Naini Tal (Bhowali); Kurseong, common at both places, May to July.

zeylanicus Annand., Spol. Zeyl. VII, 60, ♂ ♀, fig. 1, full insect, ♀, 5, wing, 6, ♂ genitalia (1910).

Brun., Fauna Brit. Ind., 215, ♂ ♀, fig. 32, full insect, pl. iv, 14; Summers, Jour. Lond. Sch. Trop. Med. II, 112: Newstead, Bull. Ent. Res. V, 187.

Peradeniya, v, vi, vii, viii. *Types* in Indian Museum.

stantoni Newstead, Bull. Ent. Res. V, 109, ♀ (1914—1915).

Kuala Lumpur, 15-vi-14 [*Dr. Stanton*], a unique ♀.

CULICIDAE.

The subdivision and arrangement of genera and species in this family has been a source of much difficulty. In the Anophelini there has been no hesitation in referring the bulk of the species to *Anopheles* itself, as is now done by most recent writers, the only other groups accorded generic rank here being *Calvertina* and *Bironella*. *Chagasia*, a non-oriental genus, was the only other one regarded as valid in the Anophelini in my "Critical Review." The classification, however, of the rest of the Culicinae is still in a very transitory state, and some attempt has been made to meet the views of others. A certain number of the recently established genera are evidently valid, others appear entitled to subgeneric rank, whilst the remainder must be regarded as of indefinite taxonomic value at present. When a genus with all its species has been bodily sunk in another by Mr. Edwards, the synonymy has been at once accepted, as the sooner invalid generic names are permanently shelved the better. No doubt a good many other genera will be weeded out as synonymous when the oriental species have been thoroughly overhauled by systematists.

In the present catalogue the subfamily Culicinae is divided merely into Anophelini and Culicini, as though the group Megarhini is apparently distinct enough, it is more than can be said for the groups or sections dominated by such genera as *Aedes*, *Culex*, *Sabethes*, etc., so that while the juggling of genera and higher groups still continues even amongst those best fitted to dictate,[1] no harm will be done by lumping them all together under the general term Culicini without assigning it any definite taxonomic value.

The accidental omission of the heading "Subfamily Megarhininae" in both my Catalogue of Culicidae and the Supplement gave the impression that the genera concerned were to be considered Anophelines, which of course was never intended.

Theobald's sequence of genera has been mainly followed because that author's work is known to all students in this family, and also because of personal inability to dogmatise.

As regards specific synonymity it has frequently been a case of "when doctors disagree" both metaphorically and actually, and in such instances I have usually followed the latest writer, or whichever has had any purely entomological support.

The wholesale overthrowing of a large proportion of the recently manufactured genera and species was early foretold by other systematists as well as by me, and the truth of the prophecy is visible in their continual reduction in almost every paper now published. It is to be hoped that the new species erected nowadays will prove to be founded on more reliable characters.

As regards location of types in this family considerable difficulty has been experienced. Respecting Leicester's species, Mr.

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[1] There are, for instance several genera which Mr. Edwards regards as anomalous.

Edwards wrote me that "types or typical specimens" of nearly all his species were in the collection that he presented to the British Museum, also that Dr. Leicester had not made it a rule to designate individual specimens as types. The types of Theobald's species, except when otherwise stated, are presumably in the British Museum also.

Subfamily CULICINAE.

GROUPS IN CULICIDAE HIGHER THAN GENERA.[1]

Anophelinae.

Theob., Gen. Ins., Fasc., 26, 5: *id.*, Monog. Culic., IV, 18; tab. gen, 22; V, 1, tab. gen.: Blanch., Moust., 157, tab. gen., 159: Leices, Culic. Mal., 18, and tab. gen.: Brun., Rec. Ind. Mus. I, 302; IV, 414.

Anophelini.

Brun., Rec. Ind. Mus. X, 32, notes, tab. gen.

Anophelina.

Theob., Monog. Culic. I, 97; III, 9: Giles, Handbk., etc., 2nd ed., 280.

Anophelines.

How., Dyar and Knab, Mosq. N. Amer. III, pt. I, 193.

Epialurgi.

Alcock, Ent. Med. Off. Ind. 64.

Culicinae.

Theob., Gen. Ins., Fasc. 26, 26, 30: *id.*, Monog. Culic. IV, 19, 147 and tab. gen.; V, 112 and tab. gen.: Blanch., Moust., 231: tab. gen., 152, 390: Giles, Handbk., etc., 2nd ed., 334, tab. gen., Leices., Culic. Mal., 64: Alcock, Ent. Med. Off. Ind, 94: Brun., Rec. Ind. Mus. I, 326; IV, 439: Patton and Cragg, Text-bk. Med. Entom., 192: Edw., Bull. Ent. Res. II, 241, tab. African gen.

Culicini.

Brun., Rec. Ind. Mus. X, 35, notes and tab. gen.: How., Dyar and Knab, Mosq. N. Amer. III, pt. 1, 189, tab. N. Amer. gen. 194; IV, pt. 2, 525.

[1] For the convenience of those who may desire it, this short list is given of the various sections into which the mosquitoes have been divided by recent writers. Only the principal sections and references are given, as they form no integral part of the present catalogue. In Howard, Dyar and Knab's monumental work the fullest particulars can be obtained. No attempt at systematic sequence is made in listing them as the great majority of the groups will probably be entirely ignored in the early future.

Culicina.

Theob., Monog. Culic. I, 97, 247; III, 124: Giles, Handbk., etc., 2nd ed., 333, tab. gen., 334.

Culicines.

How., Dyar and Knab, Mosq. N. Amer. III, pt. I, 192.

Culicales.

Alcock, Ent. Med. Off. Ind., 94.

Megarhininae.

Theob., Gen. Ins., Fasc., 26, 12: *id.*, Monog. Culic. IV, 19, 126 (*Ankylorhynchae*, Lutz. and *Lynchiellina*, Lahille, given as synonymous); V, 88: Blanch., Moust., 218, tab. gen. 221: Leices., Culic. Mal., 48; Brun., Rec. Ind. Mus. IV, 434.

Megarhinina.

Theob., Monog. Culic. I, 97, 215; III, 113: Giles, Handbk., etc., 2nd ed., 265.

Megarhini.

Brun., Rec. Ind. Mus. X, 34, notes and tab. gen.

Megarhines.

How., Dyar and Knab, Mosq. N. Amer. III, pt. I, 193.

Megalorrhini.

Alcock, Ent. Med. Off. Ind., 113.

Toxorhynchitinae.

Theob., Gen. Ins., Fasc., 26, 13.

Joblotinae.

Theob., Gen. Ins., Facs., 26, 33: Blanch., Moust. 428 and tab. gen.

Joblotina.

Theob., Monog. Culic., III, 334.

Aedeomyinae.

Theob., Gen. Ins., Fasc. 26, 33, tab. gen., 34: Giles, Handbk., etc., 2nd ed., 475: Blanch., Moust., 153, tab. gen.: Leices., Culic. Mal., 180 and tab. Malay gen.: Brun., Rec. Ind. Mus. I, 362; IV, 487.

Aedeomyina.

Theob., Monog. Culic. I, 98; II, 218; III, 275.

Aedeinae.

Blanch., Moust., 399, tab. gen.

Aedinae.

Theob., Monog. Culic. IV, 19, 537; V, 482.

Aedomina.

Giles, Handbk., etc., 2nd ed., 475.

Uranotaeniae.[1]

Theob., Monog. Culic. IV, 19, 556; V, 497.

Sabethini.

How., Dyar and Knab, Mosq. N. Amer. IV, pt. 1, 19: Brun., Rec. Ind. Mus. X, 48, notes and tab. gen.

Sabettinae, Blanch.

Theob., Monog. Culic. V, 574: Blanch. Moust., 420 and tab. gen.

Wyeomyinae.

Leices., Culic. Mal., 250.

Metanototricha.

Alcock, Ent. Med. Off. Ind., 114.

Trichoprosoponina.

Theob., Monog. Culic. I, 98; II, 283; IV, 585 (*Trichoprosoponinae*); V, 554.

Dendromyinae, Lutz.

Theob., Monog. Culic. IV, 20, 594; V, 574.

Limatinae.

Theob., Monog. Culic. IV, 627; V, 595.

Deinoceratinae.[2]

Theob., Monog. Culic. V, 553.

Deinoceratines.

How., Dyar and Knab, Mosq. N. Amer. III, pt. 1, 191.

Heptaphloebomyinae (*Heptaphloebomyina*).

Theob., Gen. Ins., Fasc., 26, 41: *id.*, Monog. Culic. III, 336; IV, 531; V, 481: Blanch., Moust., 398.

[1] This genus is attributed to Mitchell by Theobald but he gives no reference.
[2] The name *Deinoceratinae* is attributed by Theobald to Mitchell without giving any reference.

Sect. ANOPHELINI.

Anopheles, Mg.[1]

Mg., Syst. Besch. I, 10 (1818).
Sch. F. Austr. II.
GENOTYPE, *A. maculipennis* Mg., by general European acceptance.

Conchyliastes, Theob., in Howard's "Mosquitoes," 235 (1901).
GENOTYPE, *Culex posticatus* W., as *musicus* Say, by Coquillett's designation.

Cyclolepptcron, Theob., Monog. Culic. II, 312 (1901).
Id., *id.*, Jour. Trop. Med. IV, 234, *nom. nud.* (1901).
GENOTYPE, *Anopheles grabhami* Theob., by original designation.

Cyclolepidopteron, Blanch. (*Cyclolepptcron*, emend.), Moust., 185 (1905).

Grassia, Theob., Jour. Trop. Med. V, 181 (1902).
GENOTYPE, *Anopheles rossii* Giles, by original designation.

Myzomyia, Blanch., Comp. rend. Soc. Biol. Paris, LIV, 795 (1902); *nom. nov.* for *Grassia*, Theob., preocc. Fisch., 1885.
Id., Theob., Monog. Culic. III, 12,[2] 24; IV, 41, 42, tab. spp.; V, 16, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 7: Blanch., Moust., 177: James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 40: James, Rec. Ind. Mus. IV, 98: Leices., Culic. Malaya, 23: Brun., Rec. Ind. Mus. I, 305: IV, 417: X, 66 (*mia, lapsus*): Alcock, Entom. Medic. Officers, 79.

Howardia, Theob., Jour. Trop. Med. V, 181 (1902).
GENOTYPE (presumably), *Anopheles costalis* Lw.

Pyretophorus, Blanch., Comp. rend. Soc. Biol. Paris LIV, 795 (1902); *nom. nov.* for *Howardia*, Theob., preocc. Dalla Torre, 1897 in Insecta.
Id., Theob., Monog. Culic. III, 66; IV, 63, 64, list and tab. spp.; V, 36, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 8: Blanch. Moust., 186: James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 41: James, Rec. Ind. Mus. IV, 99: Brun., *loc. cit.*, I, 312; IV, 423; X, 70: Leices., Culic. Malaya, 37.

Rossia, Theob., Jour. Trop. Med. V, 181 (1902).
GENOTYPE, *Anopheles sinensis* Wied., by original designation.

Myzorhynchus, Blanch., Comp. rend. Soc. Biol. Paris LIV, 795 (1902): *nom. nov.* for *Rossia*, Theob., preocc. Owen, 1838 in Mollusca, also used by Bonaparte in same year.

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[1] Full references to this well-known genus, *sensu lato*, are not given, as Schiner's description amply portrays the view of the older authors. These references can be gleaned from Kertesz's Catalogue. For interesting descriptions of larvae of Malayan Anopheles see Stanton, "The Larvae of Malayan Anopheles," Bull. Ent. Res. VI, 159. For tables to determine Indian Anophelines see James, Paludism, No. 2, 52.

[2] Theobald here suggests *funesta*, Giles, as type of *Myzomyia*, which is impossible, having already selected *rossii*. Edwards has noted this.

Id., Theob., Monog. Culic. III, 84, pl. v, wing scales; IV, 81, list and tab.; V, 49, tab. spp.: Theob., Gen. Ins., Fasc. 26, 9: Blanch., Moust., 190: James, Rec. Ind. Mus. IV, 102: Leices., Culic. Malaya, 29 (*Myzorhyncus*): Brun., Rec. Ind. Mus. I, 313; IV, 424; X, 66: Alcock, Entom. Medic. Officers Ind., 74.

Laverania, Theob., Jour. Trop. Med. V, 181 (1902).

GENOTYPE, *Anopheles argyrotarsis* R. Desv., by original designation.

Nyssorhynchus, Blanch., Comp. rend. Soc. Biol. Paris LIV, 795 (1902): *nom. nov.* for *Laverania*, Theob., preocc. Billett, 1895 in Protozoa; also again by Grassi and Filletti in 1900.[1]

Id., Theob., Monog. Culic. III, 92, pl. v, wing scales; IV, 95, 96, list and tab. spp.; V, 55, tab. spp.: Theob., Gen. Ins., Fasc. 26, 10: Blanch., Moust., 202: James and List. Anoph. Mosq. Ind., 2nd ed., 43: James, Rec. Ind. Mus. IV, 100; Leices., Culic. Malaya, 39: Brun., Rec. Ind. Mus. I, 317; IV, 428; X, 67: Alcock, Entom. Medic. Officers Ind., 85.

Stethomyia, Theob., Jour. Trop. Med. V, 181 (1902).

Theob., Monog. Culic. III, 62, pl. viii, wing scales; IV, 59, tab. spp.; V, 35, tab. spp.: Theob., Gen. Ins., Facs. 26, 8: Blanch., Moust., 186: Brun., Rec. Ind. Mus. I, 312; IV, 423; X, 72.

GENOTYPE, *S. nimba* Theob., by original designation.

Cellia, Theob., Monog. Culic. III, 107 (1903).

Theob., *loc. cit.*, IV, 105, list and tab. spp.; V, 67, tab. spp.: Theob., Gen. Ins., Fasc. 26, 11: Blanch., Moust., 214: James, Rec. Ind. Mus. IV, 102: Leices., Culic. Malaya, 46: Brun., Rec. Ind. Mus. I, 321; IV, 431; X, 57: Alcock, Entom. Medic. Officers Ind., 90.

GENOTYPE, *Anopheles pharoensis* Theob.[2]

Aldrichia, Theob., Monog. Culic. III, App., 353 (1903).

Theob., Gen. Ins., Fasc. 26, 11: Blanch., Moust., 624: Brun., Rec. Ind. Mus. I, 322; X, 55.

GENOTYPE, *Aldrichia error* Theob., sp. nov., by original designation.

Arribalzagia, Theob., Monog. Culic. III, 81 (1903).

GENOTYPE, *A. maculipes* Theob., sp. nov., by original designation.

Alcock, Entom. Medic. Officers Ind., 77.

Christya, Theob., Rep. Sleep. Sick. Royal Soc. VII, p. 34 (1903).

Giles, Revis. Anophelinae, 40 (*Chrystya*) (1904): Alcock, Entom. Medic. Officers Ind., 77.

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[1] Blanchard suggested *Anopheles albimanus* W., as type species, but as his name is only a *nomen novum* the original genotype must stand. Even Theobald himself (Monog. III, 14) suggested *maculatus* Theob., as type species, which is impossible after originally selecting *argyrotarsis*, Rob. Desv. Edwards has noted this.

[2] This species was apparently selected as genotype by Theobald, but his original paper is not accessible to me.

Genotype, *C. implexa* Theob., sp. nov., by original designation.

Lophomyia, Giles, Jour. Trop. Med. VII, 366 (1904).

Genotype, *Lophoscelomyia asiatica* Theob., sp. nov., by original designation.

Lophoscelomyia, Theob., Entom. XXXVII, 12 (1904).

Blanch., Moust., 635: Theob., Monog. Culic. IV, 91: Leices., Culic. Malaya, 21: Brun., Rec. Ind. Mus. IV, 427; X, 64: Theob., Gen. Ins., Fasc. 26, 10 (*Lophocelomyia*): Brun., Rec. Ind. Mus. I, 316 (*Lophocelomyia*): Giles, Jour. Trop. Med. VII, 366 (*Lophomyia*).

Genotype, *L. asiatica* Theob., by original designation.

Kerteszia, Theob., Ann. Mus. Hung. III, 66 (1905).

Theob., Monog. Culic. IV, 117: Brun., Rec. Ind. Mus. IV, 431; X, 63.

Genotype, *K. boliviensis* Theob., sp. nov., by original designation.

Nototricha, Coq., Class. Mosq. N. Amer., 12 (1906).

Theob., Monog. Culic. V, 33 (*Notonotricha*, emend.) (1910).

Genotype, *Cycloleppteron mediopunctatus* Theob., by original designation.

Coelodiazesis, Dyer and Knab, Jour. N. Yk. Ent. Soc. XIV, 77 (1906).

Genotype, *Anopheles barberi* Coq., by original designation. Erected on larval characters only and therefore inadmissible.

Feltinella, Theob., Monog. Culic. IV, 56 (1907).

Genotype, *F. pallidopalpi* Theob., sp. nov., by original designation.

Myzorhynchella, Theob., *loc. cit.*, IV, 78 (1907).

Genotype, *M. nigra* Theob., sp. nov., *loc. cit.*

Neocellia, Theob., *loc. cit.*, IV, 111 (1907).

Theob., *loc. cit.*, V, 73, tab. spp.: James, Rec. Ind. Mus. IV, 101: Brun., *loc. cit.*, IV, 432; X, 66: Alcock, Entom. Medic. Officers Ind., 89.

Genotype, *N. indica* Theob., by personal designation, 1914.

Manguinhosia, Cruz in Peryassu, Os. Culic. do Brasil, 112 (1908).

Genotype, *M. lutzi* Cruz, sp. nov., the only species.

Patagiamyia, James, Rec. Ind. Mus. IV, 98 (1910).

James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 41: Brun., Rec. Ind. Mus. IV, 417; X, 68

Genotype, *Anopheles gigas* Giles, by original designation.

Neostethopheles, James, Rec. Ind. Mus. IV, 98 (1910).

James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 40: Brun., Rec. Ind. Mus. IV, 422; X, 67.

Genotype, *Anopheles aitkenii* James, in Theob., by original designation.

Nyssomyzomyia, James, Rec. Ind. Mus. IV, 101 (1910).

James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 43: Brun., Rec. Ind. Mus. IV, 422; X, 67.

Genotype.[1]

Christophersia, James, Rec. Ind. Mus. IV, 103 (descr.) (1910).
James, Paludism, I, 33 (*nom. nud.*) (July 1910): Brun., Rec. Ind. Mus. IV, 431; X, 57.
Genotype, *C. hallii* James, by original designation.

Dactylomyia, Newstead and Carter, Ann. Trop. Med. IV, 377 (1910).
Genotype, *Anopheles tessellatus* Theob., as *D. ceylonica*, sp. nov., by original designation.

Neomyzomyia, Theob., Monog. Culic. V, 29 (1910).
James, Rec. Ind. Mus. IV, 109: Brun., *loc. cit.*, IV, 417; X, 68.
Genotype, *Anopheles elegans* James, in Theob., by original designation.

Aldrichinella, Theob., Monog. Culic. V, 77 (1910); *nom. nov.* for *Aldrichia*, Theob., preocc. Coq., 1894 in Diptera: Brun., Rec. Ind. Mus. IV, 433; X, 55.

Memnemyia, Strickland, Ind. Jour. Med. Res. III, 201 (1915) for *Anopheles brevipalpis*, Roper.

Of the synonyms of *Anopheles* as given by me in my recent "Critical Review" all are accepted as such by Messrs. Howard, Dyar and Knab except *Conchyliastes* and *Coelodiazesis*. The former is sunk by the American authors in *Psorophora*, a culicine genus, and the latter is erected on larval characters, the adult not being recognizable from *Anopheles*, with which genus Edwards and other of the most recent writers incorporate it.

sinensis Wied., Auss. Zweifl. I, 547, ♂ ♀ (1828).

Anopheles sinensis, Frnfld., Verh. zool. bot. Ges. Wien, XVII, 449: Theob., Monog. Culic. I, 137, ♀, fig. 30, wing scales; pl. xxxvii, 146, ♀, typical form, full ins. col.; pl. A, wing scales: Giles, Handbk., etc., 160: *id.*, 2nd ed., 305; pl. viii, 9, wing scales, ♀: Stanton, Ind. Jour. Med. Res. III, 255: Chris., *loc. cit.*, III, 480: Waterston, Bull. Ent. Res. IX, 5.

Myzorhynchus sinensis, Theob., Monog. Culic. III, 89, fig. 53, palpus, ♀: Giles, Jour. Trop. Med. VII, 365: Blanch., Moust., 190, ♀, fig. 170, wing scales: Leices., Culic. Malaya, 30, ♂ ♀ (*Myzorhyncus*): Brun., Rec. Ind. Mus. I, 315; IV, 426: James, Monog. Anoph. Mosq. Ind., 2nd ed., 120, col. pl. xv, full ins. ♀: Strickland, Bull. Ent. Res. IV, 139.

Anopheles sinensis, subspecies *indiensis*, Theob., Monog. Culic. I, 145.

Anopheles nigerrimus, James and List. (*nec* Giles), Monog. Anoph. Mosq. Ind., 79, ♀; col. pl. iii, full ins.

Anopheles plumiger, Don., Insektenborse XVIII, 37, ♂ ♀ (1901).

Anopheles jesoensis, Tsuzuki, Centr. fur Bakteriol. XXXI, 763 (1902).

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[1] Major James selects *rossii*, which is impossible, as this species was definitely made the type of *Grassia*, Theob. (renamed *Myzomyia*, Blanchard). Major James places two other species in *Nyssomyzomyia*, *ludlowi*, Theob., and *punctulata*, James and List.

Don., Zeits. f. Hyg. XLIII, 231.

Anopheles pseudopictus, Grassi, Atti R. Acad. Lincei Rendic. VIII, 109 (1899).

Myzorhynchus peditaeniatus, Leices., Culic. Malaya, 31, ♂ ♀ (*Myzorhyncus*) (1908).

Id., *id.*, Brun., Rec. Ind. Mus. IV, 425: Strickland, Bull. Ent. Res. IV, 135.

Anopheles argyropus, Swellengrebel, Tydsch. Ned. Ind. Geneesk. LIV, 334 (1914).

Widely distributed throughout the East. India, Assam, Burma, Java, Sumatra, Siam, Philippines, Formosa, China, Japan. *Type* of *sinensis*, presumably at Vienna, that of *plumiger* in Berlin Museum, described from East India and Hongkong: of *peditaeniatus* in Leicester collection. *A. jesoensis*, Tsuzuki is synonymous with *barbirostris*, Wulp, according to Christophers. The latter writer would also sink *nigerrimus*, Giles; *nigerrimus*, James and Liston, and *minutus*, Theobald, as synonyms of *sinensis*, W., typical form, or of the variety *vanus* of Theobald, with which Christophers only queries *vanus* of Walker (which takes precedence in the name) as synonymous. The synonymy of *pseudopictus* is on the authority of Waterston.

plumbeus Hal., Zool. Jour. III, 501 (descr. sine nom.); 503 (named by Steph.) (1828).

Anopheles plumbeus, Chris., Ind. Jour. Med. Res. III, 489; pl. xxviii, var. chars.

A. (*Coelodiazesis*) *plumbeus*, Edw., Bull. Ent. Res. VII, 201.

nigripes, Staeg. Nat. Hist. Tij. II, 252 (1839).

barianensis, James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 76 (1911): Brun., Rec. Ind. Mus. IV, 415.

barberi, Coq., Can. Ent. XXXV, 310 (1903).

Barien, Murree Hills, Punjab, 7000 ft. [*Wredden*].

A. plumbeus was described (without a name) by Haliday amongst notes on other insects from the north of Ireland, the species being christened *plumbeus* by Stephens two pages further on in the same journal. The Kertesz Catalogue attribute the species to Stephens and sinks it as synonymous with *bifurcatus*, L.

pictus Lw., Dipt. Beit. Posen, p. 4 (1845).

Theob., Monog. Culic. IV, 124: Brun., Rec. Ind. Mus. IV, 434. *Type* in Berlin Museum. A species of uncertain validity according to some authors.

Recorded from Haut Tonkin and Harioi.

vanus Walk., Proc. Linn. Soc. Lond. IV, 91, ♀ (1860).

Giles. Handbk., etc., 158.

Myzorhynchus vanus, Blanch., Moust., 196, ♂ ♀: Brun., Rec. Ind. Mus. I, 316; IV, 427.

Anopheles sinensis, W., "sub. sp., *annularis* Wulp," Theob., Monog. Culic. I, 142, ♂ ♀; fig. 32, head; pl. v, 18, ♀; pl. A, wing scales.

Myzorhynchus sinensis annularis, Theob., Monog. Culic., I, 142; III, 90.
nec annularis, Wulp, Notes Leyd. Mus. VI, 249 (1884).
Myzorhynchus minutus, Theob., Monog. Culic. III, 91, ♀ (1903). Brun., Rec. Ind. Mus. I, 314; IV, 425.
Anopheles minutus, Strickland, Bull. Ent. Res. IV, 136.

Lahore [*Christophers*]; Sambalpur, Centr. Prov., India [*D. O'C. Murphy*]; Calcutta, x, xi, xii; Port Canning; Quilon, 27-vii-01 [*James*]; Malacca; Madras [*Cornwall*]; Dondra, Ceylon, 4-xii-07 [*Green*]; Galle, Ceylon, 8-xii-07 [*Green*]; Perak [*Wright*]; Taiping [*Wray*]; Penang [*Freer*]; Kuala Lumpur [*Durham*]; Dindings; Luzon, 7-ix-01, Pangasinan, Manila, Albay, Laguna, Bulacan, Tayabas, Cavite, Bataan, Rizul, Nueva Ecija [all Philippine Is. iv, and vi to i, *Ludlow*]; Celebes, Java, China. *Types* of *vanus* and *minutus* in British Museum, the former much damaged.

Leicester thinks *vanus* synonymous with *sinensis*, Wied., but Theobald and Strickland keep them distinct. Major Christophers considers the *vanus* of Theobald only a variety of *sinensis*, Wied., but seems uncertain whether it is identical with *vanus*, Walk. In this var. *vanus*, Theob., he also sinks *nigerrimus*, Giles and *minimus*, Theob.

barbirostris Wulp, Notes Leyd. Mus. VI, 248, ♀ (1884).
Wulp, Tijd. v. Ent. XXVIII, 79, ♀; pl. iv, 1: Theob., Monog. Culic. I, 146, ♀; fig. 33, head; fig. 34, wing (also see p. 151); pl. A, wing scales: Giles, Handbk., etc., 146; 2nd ed., 308, ♂ ♀; pl. viii, 13*a*, wing, ♂ ♀: James and List., Anoph. Mosq. India, 77, ♀; pl. x, 1, wing scales; pl. v, larval figs.; col. pl. ii, full insect ♀: Roper, Bull. Ent. Res. V, 146: Strickland, Ind. Jour. Med. Res. III, 253; Chris., Ind. Jour. Med. Res III, 462.
Myzorhynchus barbirostris, Theob., Monog. Culic. III, 86, fig. 25, larval hairs; pl. iii, wing: Theob., Gen., Ins. Fasc. 26; pl. i, 3, full insect ♀: Blanch., Moust. 197: James, Monog. Anoph. Mosq. Ind., 2nd ed., col. pl. xiv, full ins. ♀: Brun., Rec. Ind. Mus. I, 314; IV, 424: Strickland, Bull. Ent. Res. IV, 139.
Myzorhyncus barbirostris, Leic., Culic. Malaya, 33, ♂ ♀.

India, common and widely distributed. Assam, Burma, Kuala Lumpur, Klang, Malay States, Siam, Sumatra, Papua, Philippines (var. locs. common), Andamans, also occurs in old Calabar, West Africa and Japan. *Type* in Leyden Museum.

Christophers gives *jesoensis*, Tsuzuki (with the reference, Arch. f. Schiffs. vi [1902]), as synonymous with *barbirostris*, but other authors have regarded it as identical with *sinensis*.

annularis Wulp., Notes Leyd. Mus. VI, 249, ♂ ♀ (1884).
Wulp., Tijd. v Ent. XXVIII, 80, pl. iv, 2, head, profile: Giles, Handbk., etc., 159.
Myzomyia annularis, Brun., Rec. Ind. Mus. IV, 418.

Myzorhynchus annularis, Brun., Rec. Ind. Mus. I, 314.
nec "*annularis*, Wulp." of Theob., etc.

Ardjoeno, Java [*Hekmeijer*]. *Type* in Leyden Museum.

By some authors (Theob., Monog. I, 142) once regarded as a variety of *sinensis*, W.; but the *annularis* of Theobald is *vanus*, Walk.

subpictus Grassi, Atti R. Accad. Lincei Rendic., VIII, 1 (1899).
Brun., Rec. Ind. Mus. I, 323; IV, 434.

Recorded from "India Orientalis" in the Kertesz Catalogue (I, 254), but it seems an uncertain species. *Type* in Rome University Museum.

rossii Giles, Jour. Trop. Med. II, 63, ♂ ♀ (1899).
Theob., Monog. Culic. I, 154, ♂ ♀, fig. 37, wing and cross-veins, fig. 38, palpus ♂, thorax ♀, costal border, ♂ ♀, ungues ♂; pl. A, wing scales; pl. iii, 10, ♂, 9, ♀ (both full ins. col.): Giles, Handbk., etc., 149; 2nd ed., 311, ♂ ♀: pl. ix 11, wing, ♂ ♀, claws: James and List., Anoph. Mosq. India, 109, pl. vi, 1, larval figs.; pl. x, 3, wing scales; col. pl. xii, full ins. ♀: Patton and Cragg, Textbk. Med. Entom., 196, larva; Chris., Ind. Jour. Med. Res. III, 476.
Myzomyia rossii, Theob., Monog. Culic. III, 45, fig. 23, wing, ♀, figs. (pp. 46, 47), larval hairs; pl. iii, wing; pl. vi, wing scales: Blanch., Moust., 178, ♂ ♀; fig. 162, wing; fig. 163, transverse veins: Leices., Culic. Malaya, 25, ♀ ♀: Brun., Rec. Ind. Mus. I, 309; IV, 421 (*rosisi*, lapsus), (copious notes).
Nyssomyzomyia rossii, James, Monog. Anoph. Mosq. Ind., 2nd ed., col. pl. xi, full ins. ♀.
Anopheles vagus, Don., Beit. z. Kennt. Anoph., 80 (1902).

var. **indefinita** Ludl., Can. Ent. XXXVI, 299, ♀ (*Myzomyia rossii*, var. *indefinita*) (1904).
Ludl., Bull. Ent. Res. VI, 155 (synonymy cleared up).
Myzomyia indefinita, Theob., Monog. Culic. IV, 47: Brun., Rec. Ind. Mus. IV, 47.
Myzomyia rossii, subspecies *indefinita*, Brun., Rec. Ind. Mus. I, 310.
Myzomyia parangensis, Ludl., Psy. XXII, 137—140 (1915).

India, widely distributed in the plains throughout the year. Sylhet, i, ii, iv, v, vi [*Hall*]; Chittagong, vii, viii, ix [*Hall*]: Ceylon, abundant; Penang [*Free*]; Straits, var. locs. [*t. Leices.*]; Perak [*Wray, Wright*]; Kuala Lumpur [*Durham*]; Singapore, 22-vii-99 [*Hanitsch*]; Phrapatoon, Siam, i, iii, viii, ix [*Woolley*]; Philippines, numerous localities, common [*Ludlow*]; Deli, iii-14; Korinchi Valley, Sungei Penoh, 2700 ft., iii-14; Lampongs, vi-14 [all Sumatra and *t. Stanton*]. The typical form mainly confined to British India and Ceylon, the var. *indefinita* mainly to the Philippines.

fuliginosus Giles, Handbk. Gnats Mosq., 160 (1900).

Giles, Handbk., etc., 2nd ed., 298, ♂ ♀; pl. viii, 7, wing, palpus ♂ ♀, scutellum scale: Theob., Monog. Culic. I, 132, ♀, figs. 27, 28, pl. i, 3 (full ins. col. ♀): James, Sci. Mem. Med. Off. India, No. 2, fig. 18 (p. 39, larval chars.): James and Liston, Anoph. Mosq. India, 91, pl. v, 2, larval figs.; pl. x, 4, wing scales; col pl. v, full ins. ♀: Chris., Ind. Jour. Trop. Med. III, 464.

Nyssorhynchus fuliginosus, Theob., Monog. Culic. III, 93; IV, 100 (life-history): Blanch., Moust., 206, fig. 179, normal wing: Brun., Rec. Ind. Mus. I, 317; IV, 428: James, Anoph. Mosq. Ind, 2nd ed., col. pl. vii, full ins. ♀.

Anopheles jamesii, Liston, Ind. Med. Gaz XXXVI, p. 441 (no sex stated) (1901).

nec jamesii, Theob., Monog. Culic. I, 134.

Anopheles leucopus, Don., Insektenborse XVIII, 37, ♂ ♀ (1901).

var. **adiei** James and List.

Nyssorhynchus fuliginosus, Giles, var. *adiei*, James and Liston, Anoph. Mosq. Ind., 2nd ed., 89 (1911): Chris., Ind. Jour. Med. Res. III, 465.

Anopheles nagpori, James and Liston, Anoph. Mosq. Ind., 1st ed., 101 (1904)

Anopheles fuliginosus, var. *nagpori*, *id.*, *loc. cit.*, 2nd ed., 90 (1911).

var. **nivipes** Theob.

Nyssorhynchus nivipes, Theob., Entom. XXXVI, 258, ♂ (1903).

Anopheles fuliginosus, var. *nivipes*, Chris., Ind. Jour. Med. Res. III, 466.

Theob., Monog. Culic. IV, 101, ♀; Leices., Culic. Malaya, 44, ♂ ♀; (*Nyssorhyncus*): Brun., Rec. Ind. Mus. I, 319; IV, 429.

var. **pallida** Theob.

Nyssorhynchus fuliginosus, Giles, var. *pallida*, Theob., Monog. Culic. I, 134, fig 28*b* (p. 133), wing (1901).

Blanch., Moust., 205, fig. 179*b*, wing, var. *pallida*.

A. fowleri, Chris., Paludism II, 64 (1911)

The typical form of *fuliginosus*, Giles, is common throughout India and Burma up to 3000 ft. occurring in many localities during the greater part of the year: probably generally distributed further east. Ceylon, Assam, Java, Sumatra, Phil. Is. (var. locs.). The *adiei* variety occurs from the N.W. Frontier to Assam during winter: var. *nivipes* comes from Burma, Kuala Lumpur, i [*Durham*], and Klang; also from the Andamans. Type of *fuliginosus* probably lost. According to Christophers the typical specimens in the British Museum are probably others supplied by Ross. *Type* of *nagpori* in Central Malaria Bureau, Kasauli, of *nivipes*, *pallida* and *jamessii* in British Museum. An apparent discrepancy occurs in *fowleri* figuring in this Catalogue further on as a separate species. From Major Christophers' recent paper I understand him to mean that the

forms *fowleri* and var. *pallida* are probably identical, but that he grants the former name specific rank *pro. tem.*

nigerrimus Giles, Handb. Gnats Mosq., 161, ♀ (1900).
Theob., Monog. Culic. I, 150: Giles, Handb., etc., 2nd ed., 306.
Myzorhynchus nigerrimus, Blanch., Moust., 197: Brun., Rec. Ind. Mus. I, 314; IV, 425.
nec "*nigerrimus*, Giles," James and Liston, Anoph. Mosq. Ind., 79 (1900).
Naini Tal [*Giles*]; Sylhet [*Hall*]; Calcutta [*Alcock, Annandale, Daniels*]; Port Canning [*Annandale*]; Jalpaiguri, Dacca, Lahore, Travancore [*James*]; Madras. *Type* in British Museum. Christophers, in a recent paper, sinks this species as synonymous with var. *vanus*, Theob., of *sinensis*, Wied., including also the *nigerrimus* of James and Liston.

lindesayi Giles, Handb. Gnats Mosq., 166, ♀ (*lindesaii*) (1900).
Giles, Handb., etc., 2nd ed., 323, ♀, pl. x, 8, wing ♀ (*lindsaii*): Theob., Monog. Culic. I, 203, pl. v, 19, ♀ (full ins. col.): James and List., Anoph. Mosq. Ind., 117, col. pl. xv (full ins. ♀): Blanch., Moust., 169: Brun., Rec. Ind. Mus. I, 304; IV, 416.
Chris., Ind. Jour. Med. Res. III, 470.
Patagiamyia lindesayi, James, Anoph. Mosq. Ind., 2nd ed., 62, redescr., figs., col. pl. ii, full ins. ♀.
Bakloh, Punjab, 6000 ft., vii [*Lindsay*]; Ferozepore [*Nurse*]; Raneghat, 4000 ft. [*James*]; Himalayas, var. locs., 2000 up to 7000 ft., Naini Tal [*Giles*]; Mussoorie; Bhim Tal, ix, 06 [*Annandale*]; Murree, 7000 ft.; Tret, 4600 ft. Dehra Dun [*Thomson*]; Kurseong, Palni Hills, Nilgiri Hills, Assam.

var. **maculata** Theob., Rec. Ind. Mus. IV, 1, ♀ (1910).
Brun., Rec. Ind. Mus. IV, 416.
Kurseong, 5-vii-08 [*Annandale*]. *Type* of *lindsayi*, in British Museum, of *maculata* in Indian Museum.

gigas Giles, Ent. Month. Mag. XXXVII, 196, ♂ ♀ (1901).
Theob., Monog. Culic. II, 308, ♂ ♀: James and List., Anoph. Mosq. Ind., 118: Giles, Handbk., etc., 2nd ed., 316, ♂ ♀; pl. x, 2, wing, ♂ ♀: Brun., Rec. Ind. Mus. I, 303; IV, 416: Chris., Ind. Jour. Med. Res. III, 467.
Myzomyia gigas, Blanch., Moust., 184.
Patagiamyia gigas, James, Rec. Ind. Mus. IV, 98.
Patagiamyia simlensis, James and List., Anoph. Mosq. Ind., 2nd ed., 66, ♂ ♀ (1911).
Anopheles simlensis, Brun., Rec. Ind. Mus. IV, 416.
Anoph. gigas, var. *simlensis*, Alcock, Jour. Lond. Sch. Trop. Med. II, No. 3, p. 161 (1913).
Anoph. gigas, var. *refutans*, *id.*, *loc. cit.*, p. 161.
Himalayas; Mahasu, near Simla, 8000 ft., viii; Kathlighat, Garhwal Distr., 6000 ft. [*Imms*]; Murree [*Maj. Smith*]; Deesa,

W. Centr. India [*Nurse*]; Coonoor, Nilgiri Hills, 5000—6000 ft. [*Price*]; Khasi Hills; Pachmarhi Hills; Ceylon (hills) [*t. Alcock*; *Green*]. Type of *gigas* in British Museum; of *simlensis* in Central Malaria Bureau, Kasauli.

culicifacies Giles, Ent. Month. Mag. XXXVII, 197, ♀ only, the ♂ renamed *turkhudi*, List. (1901).

Theob., Monog. Culic. II, 309, ♀ *nec* ♂ (*t.* Theob., *loc. cit.*, III, 48): Giles, Handbk., etc., 2nd ed., 317. pl. ix, 12, ♀ *nec* ♂: James and List., Anoph. Mosq. Ind., 106, pl. ix, 2, wing scales, pl. viii, 1, larval figs.; col. pl. xi, full ins. ♀: Chris., Ind. Jour. Med. Res. III, 463.

Myzomyia culicifacies, Theob., Proc. Royal Soc. LXIX, 379, ♀: *id.*, Monog. Culic. III, 39, fig. (p. 40), larval hairs; pl. iii. wing; pl. viii, wing scales; IV, 51; V, 25: Blanch., Moust., 182, ♀: James, Monog. Anoph. Mosq. Ind., 2nd ed., pl. iii, full ins. col. ♀: Brun., Rec. Ind. Mus. I, 305; IV, 404 (criticism on name of species), 418.

Myzomyia culicifacies, var. *punjabensis*, James, Anoph. Mosq. Ind. 72 (1911).

Anopheles listoni, Giles, Ent. Month. Mag. XXXVII, 197, ♂ ♀ (1901).

Id., Handbk., etc., 2nd ed., 319, ♂ ♀; pl. x, 4, wing, ♂ ♀; head, ♂ ♀: Theob., Monog. Culic. II, 311, App. ♀.

nec listoni, Liston,

Anopheles indicus, Theob., *loc. cit.*, I, 183, ♀ (1901).

Anopheles indicus, Giles, Handbk., etc., 2nd ed., 320, ♀.

Pyretophorus sergenti, Theob., Monog. Culic. IV, 68 ♀, fig. 16, wing (1907).

India, common, generally distributed up to 3000 ft.; Mandalay [*Annandale*]; Dr. Gough says it ranges from Algeria to India, and Edwards records it from as far west as Lake Tiberias. *Types* of *culicifacies* and *indicus* in British Museum; also of *listoni*, presumably the type ♂ attributed to *culicifacies*, Giles; of *punjabensis* in Central Malaria Bureau, Kasauli.

According to the strict rules of zoological nomenclature, since two species were confused at the time of description, the name *culicifacies* should have been retained for the ♂ (now known as *turkhudi*, List.), and the ♀ (still known as *culicifacies*) should have been renamed (*v.* my Cat. Or. Culic. Supp., p. 404).

theobaldi Giles, Ent. Month. Mag. XXXVII, 198, ♀ (1901).

Giles, Handbk., etc., 2nd ed., 299, ♀: Theob., Monog. Culic. II, 311 (App.) ♀: James and List., Anoph. Mosq. Ind., 97, col. pl. viii, full ins. ♀: Chris., Ind. Jour. Med. Res. III 482.

Nyssorhynchus theobaldi, Theob., Monog. Culic. III, 95: Blanch., Moust. 210: Brun., Rec. Ind. Mus. I, 320; IV, 430.

James, Monog. Anoph. Mosq. Ind., 2nd ed., col. pl. x, full ins. ♀.

Anoph. maculatus, var. *theobaldi*, Alcock, Jour. Lond. Sch. Trop. Med. II, No. 3, p. 164 (1913).

Ellichpur (Centr. Ind.) [*Liston*]; Shahjahanpur, 19-x-00 [*Giles*]; Dacca [*Macrae*]; Nagpur [*Stephens*]; Sambalpur [*Murphy*]; Lahore, x; Bombay; Benguet, Phil. Is., iii, iv, xi. Also occurs in the Aden hinterland. *Type* in British Museum.

kochi Don., Insektenborse XVIII, 36, ♂ ♀ (1901).
Theob., Monog. Culic. I, 174, ♀; pl. iv, 16 ♀, full ins. col.
Edwards, Bull. Ent. Res. IV, 222: Gough, Bull. Ent. Res. V, 142: Roper, *loc. cit.*, V, 129, life-history: Chris., Ind. Jour. Med. Res. III, 469.
Nyssorhynchus kochi, Blanch., Moust., 208.
Cellia kochi, Theob., Monog. Culic. III, 110; Leices., Culic Malaya, 46, ♂ ♀: Brun., Rec. Ind. Mus. I, 321; IV, 431.
Anopheles ocellatus, Theob. (MS. name only), Monog. Culic. II, 306, note as to name.
Giles, Handbk., etc., 2nd ed., 315, ♀, pl. ix, 5, wing ♀, dorsum of thorax.
Cellia flava, Ludl., Can. Ent. XL, 32, ♂ ♀ (1908): Brun., Rec. Ind. Mus. IV, 431.
Nyssorhynchus flava, Ludl., Psy. XVIII, 126 (1911).
Christophersia hallii, James, Paludism I, 32, ♂ ♀, figs. var. chars. (1910). James and List., Anoph. Mosq. Ind., 2nd ed., 123: Brun., Rec. Ind. Mus. IV, 431.

Sylhet, 4-ii-05; 7-iv-05; vi, 31-vii-05; 15-xii-05 [all *Hall*]; Singapore [*Biro*]; Taiping, Perak, Kuala Lumpur, xii-02 [*Durham*]; Malay Peninsula, var. locs.; Padarg, Sumatra [*t. Donitz*]; Deli, iii-14; Lampongs, vi-14 [both Sumatra, *t. Stanton*]; Serang and Tjimahi, Java [*t. Donitz*]; Tayabas, Phil. Is., ix-07. *Type* of *ocellatus* in British Museum; of *flava* in Army Medical Museum, Washington; of *hallii* in Indian Museum

Theobald had described this species in the MS. of his Monograph as *ocellatus*, but as the description of Donitz's *kochi* was published just before Theobald's work, he allowed his own description to stand as that of *kochi*, and in Vol. II, 306, he again notes that *ocellatus*, Theob., is a MS. synonym of *kochi*, in case specimens may exist in any collection under the MS. name.

punctulatus Don., Insektenborse XVIII, 36, ♂ ♀ (1901).
Roper, Bull. Ent. Res. V, 144.
nec Anopheles, *id.*, Theob., Monog. Culic. I, 175.
Cellia punctulata, Theob., Monog. Culic. IV, 109: Brun., Rec. Ind. Mus. IV, 432.

Stephansort, Papua; Herbertshohe, Bismarck Archipelago [both *t. Donitz*]. See note under *A. tessellatus*.

Mr. Roper (Bull. Ent. Res. V, 144) makes *tessellatus*, Theob., a synonym of this species, but I have retained Mr. Edwards' view in keeping them distinct.

leucosphyrus Don., Insektenborse XVIII, 37, ♀ (1901).
Theob., Monog. Culic. II, 307, App. ♀: Roper, Bull. Ent. Res. V, 193: Chris., Ind. Jour. Med. Res. III, 469.

Myzomyia leucophyrus, Giles, Handbk., etc., 2nd ed., 312, fig. 44, wing: James and List., Anoph. Mosq. Ind 82: Leices., Culic. Malaya, 28, ♂ ♀ : Brun , Rec. Ind. Mus. I, 307.

Nyssorhynchus leucophyrus, Blanch., Moust., 213, ♀.

Neomyzomyia leucophyrus, Brun., Rec. Ind. Mus. IV, 417.

Myzomia elegans, James in Theob., Monog. Culic. III, 51, ♀ ; fig. 28, wing scales, cross veins, 29, wing (1903).

Myzomyia elegans, Brun., Rec. Ind. Mus. I, 306.

Anopheles leucosphyrus, var. *elegans*, James and List., Monog. Anoph. Mosq. Ind., 82, ♀ ; pl. ix, 4, wing scales ; pl. xii, wing, palpus, leg, larva.

Pyretophorus, *id.*, Theob., Monog. Culic. IV, 77.

Neomyzomyia elegans, James, Theob., Monog. Culic. V, 30, ♂ ♀ : two figs. of ♀, wing and other chars. (This description by Theobald): Brun., Rec. Ind. Mus. IV, 417.

Karwar, iv [*Cogill*] ; Meenglas, Jalpaiguri [*Wallich*] ; Andaman Is. [*Ray White*] ; Kajoe Janam, N. of Padang, Sumatra [*t. Donitz*] ; Deli, iii-14 ; Lampongs, vi-14 [both Sumatra and *t. Stanton*] ; Moearah Tewah, Borneo [*t. Donitz*] ; Malay Peninsula. *Type* of *elegans* in British Museum.

turkhudi Liston, Ind. Med. Gaz. XXXVI, 441, no sex stated, apparently ♀ (1901).

Giles, Handbk., etc., 2nd ed., 320, ♀ (footnote): James, Sci. Mem. Ind. No. 2, 49 ; fig. 27, wing ; fig. 28, larval chars. : James and List., Anoph. Mosq. Ind., 115 ; pl. viii, 2, larval figs. ; col. pl. xiv, full ins. ♀ : James, Anoph. Mosq. Ind., 2nd ed., col. pl. v, full ins. ♀ : Gough, Bull. Ent. Res. V, 133, new syns. and notes : Chris., Ind. Jour. Med. Res. III, 483.

Myzomyia turkhudi, Theob., Monog. Culic. III, 48, ♀ ; pl. iii, wing (1903).

Blanch, Moust., 183 : Brun., Rec. Ind Mus. I, 311 ; IV, 422.

Anopheles culicifacies, Giles, Ent. Month. Mag. XXXVII, 197 (1901).

Theob., Monog. Culic. II, 309, ♂ only : Giles, Handbk., etc., 2nd. ed., 317, ♂ ; pl. ix, 12, ♂ ♀ : Theob., Proc. Roy. Soc. LXIX, 379, ♂ ; fig. 2 (p. 380), genitalia ♂.

Anopheles multicolor, Camboulin, C. R. Acad Sci. Paris, CXXV, 704 (1902).

Anopheles impunctus, Don., Zeits. f. Hygiene, XLI, 67 ; pl. ii, 15 (1902).

Pyretophorus chaudoyei, Theob., Monog. Culic. III, 68 (1903).

P. nigrifasciatus, *id.*, *loc cit.*, IV, 65 (1907).

P. myzomyfacies, *id* , *loc. cit* , IV, 69 (1907).

Pyretophorus cleopatra, Willcocks, *nom. nud.*, Ann. Trop. Med. Parasit. III, 586 (1910).

Myzomyia azriki, Patton, Jour. Bomb. Nat. Hist. Soc. XVI, 632 (1905).

M. hispaniola, Theob., Monog. Culic. III, 49 (1903).

India, generally distributed (Ellichpore, Cashmere, Nagpur, Hoshangabad, Lahore, Ferozepore, Aurungabad); Andaman Is. [*Maj. Anderson*]. Dr. Gough states the species ranges continuously from Teneriffe through the north coast of Africa to India. *Types* of *turkhudi* and *nigrifasciatus* in British Museum.

Theobald's description of the ♂ was drawn up from Giles' type, which at that time was considered to be the ♂ of *culicifacies*, Giles, and was first described as such by both Giles and Theobald. *Vide* notes under *culicifacies*.

vincenti Laveran, Comp. Rend. LIII, 993 (1901).

Blanch., Moust., 175, ♀: Theob., Monog. Culic. V, 184: Brun., Rec. Ind. Mus. I, 322; IV, 434.

Van-Linh (Haut Tonkin) [*t. Laveran*]. *Type*, location unknown to present author.

maculatus Theob., Monog. Culic. I, 171, ♂ ♀ (*maculata*), fig. 48, var chars. (1901).

James, Sci. Mem. Med. Off. Ind. No. 2, 47, fig. 25, wing and leg: Giles, Handbk., etc., 2nd ed., 301, ♂ ♀; pl. ix, 2, head, wing ♂, palpus ♀: James and List., Anoph. Mosq. Ind., 99: Roper, Bull. Ent. Res. V, 143: Chris., Ind. Jour. Med. Res. III, 471.

Nyssorhynchus maculatus, Theob., Monog. Culic. III, 96: Blanch., Moust., 207, ♂ ♀; fig. 180, wing: Leices., Culic. Malaya, 41, ♂ ♀: Brun., Rec. Ind. Mus. I, 318; IV, 429.

Nyssorhyncus willmori, Leicester, Culic. Malaya, 42, ♂ ♀.

nec willmori, James.

Nyssorhynchus pseudowillmori, Theob., Monog. Culic. V, 65, ♀ (1910): Brun., Rec. Ind. Mus. IV, 430.

Anopheles maculatus, var *willmori*, Alcock, Jour. Lond. Sch. Trop. Med. III, No 3 (1913).

Himalayas up to 6000 ft. from N.W. Frontier to Assam; Lahore, iii, iv [*Christophers*]; Jeypore; Jalpaiguri, 13-vii-09 [*Wallich*]; Kurseong, Nara Ghat, 25—26-ii-08 and Thaumaspur, 18—20-ii-08, ♂ ♀ (the two latter on the Bengal-Nepalese Frontier); Perak; Dindings, xi; Korinchi Lake (Sandarang Agong, Sumatra, 2450 ft.), v-14; Batak Highlands, Sumatra 4000 ft., iv-15; Hongkong, ix—x. *Types* originally stated to be in Dr. Ree's collection, but the *type* ♂ is now in the British Museum; the *type* ♀ is not in existence. *Type* of *pseudowillimori* in Ind. Mus.

Roper recently considers *willmori*, James in Theob. and *dudgeoni*, Theob., to be synonymous with *maculatus*, but Christophers states this view to be erroneous. This latter author (Ind. Jour. Med. Res. III, 471) clears up a difficulty set forth by Stanton (Jour. Lond. Sch. Trop Med. II, No. 1, p. 7) making it obvious that *maculatus*, Theob., was actually described from both sexes of that species. He states that Theobald in his later descriptions mixed *maculata* with *karwari*.

tessellatus Theob., Monog. Culic. I, 175, ♀ (as *Anopheles punctulatus*, Don.), fig. 49, thorax, wing, hind leg; pl. xxxvii, 148, ♀, full ins. col. (1901).

Giles, Handb., etc., 2nd ed, 305, ♀; pl. ix, 7, wing ♀, dorsum of thorax, hind tarsus (*tesselatus*, lapsus): Edw., Bull. Ent. Res. IV, 221: Stanton, Ind. Jour. Med. Res. III, 255.

Myzomyia tessellata, Theob., Monog. Culic. III, 55 (*tessellatum*); IV, 42 (*tessellata*): Brun., Rec. Ind. Mus. I, 311; IV, 422.

Anopheles punctulatus, James and List., Anoph. Mosq. Ind., 84, pl. xi, wing, head, leg: Chris., Ind. Jour. Med. Res. III, 482.

Myzomyia punctulata, Leices., Culic. Malaya, 27, ♂ ♀: Brun., Rec. Ind. Mus. I, 309.

Nyssorhynchus punctulatus, Blanch., Moust., 208.

Nyssomyzomyia punctulata, James and List., Monog. Anoph. Mosq. Ind., 2nd ed., 104, pl. xiv, wing, head, leg.

Anopheles deceptor, Don., Zeits. for Hyg. u. Insek., XLI, 60.

Myzomyia deceptor, Theob., Monog. Culic. V, 29: Brun., Rec. Ind. Mus. IV, 418.

Myzomyia thorntoni, Ludl., Can. Ent. XXXVI, 69, ♀ (1904): Blanch., Moust., 183: Brun., Rec. Ind. Mus. I, 311; IV, 422.

Dactylomyia ceylonica, Newstead and Carter, Ann. Trop. Med. Paras. IV, 377 (1910).

Trincomalee, Ceylon [*Green*]; Taiping, v; 22-xi-99; 21-xii-99 [*Wray*]; Sumatra [*t. Donitz*]; Deli, iii-14; Lampongs, vi-14; [both Sumatra and *t. Stanton*]. *Type* of *tessellatus* in British Museum; of *thorntoni*, in Army Med. Mus. Washington; of *ceylonica* in Liverpool Sch. of Trop. Med.

Theobald had given the name *tesselatus* to this species in the MS. of his Monograph, but just before publication he considered it identical with *punctulatus*, Don., and changed the name to that of Donitz's species, confirming this later (*l.c.*, II, 306), as specimens under his own MS. name had been sent out to correspondents. In Vol. III, 55, he says Donitz informed him the two species were distinct.

minimus Theob., Monog. Culic. I, 186, ♀, fig. 55, wing, thorax, cross-veins (1901).

Giles, Handbk., etc, 2nd ed., 321, ♀; pl. x, 7, wing ♀, thorax scales: Chris., Ind. Jour. Med. Res. III, 473.

Pyrctophorus minimus, Giles, Jour. Trop. Med. VII, 365: Blanch., Moust., 188, ♀, fig. 169, wing, transverse veins: Brun., Rec. Ind. Mus. I, 313; IV, 423.

Anopheles christophersi, Theob., Proc. Roy. So. LXIX, No 456, p. 378, ♀, pl. v, 3, wing (Mar. 1902): Theob., Monog. Culic. V, 24: James and List., Anoph. Mosq. Ind., 103, pl. vii, 1, larval figs.: col. pl. x, full ins. ♀: Giles, Handbk, etc., 2nd ed., 512: Edw., Bull. Ent. Res. IV, 222: Ludl., *loc cit.*, VI, 155 (synonymy).

Anopheles formosaensis I, Tsutzuki, Arch. f. Schiff. IV, 9 (May, 1902).

A. aconitus, var. *cohaesa*, Don., Zeitz. f. Hyg. XLIII, 233 (1903): *Myzomyia funesta*, Ludl., Can. Ent. XXXVII, 135 (1905). nec *funestus*, Giles.
Myzomyia mangyana, Banks, Phil. Jour. Sci. I, 991, ♀ (1906).
Brun., Rec. Ind. Mus. I, 309
Anopheles febrifer, Banks, Phil. Jour. Sci. IX, Sect. D, 405 (1914); (prelim. descr. by Drs. Walker and Barber, *loc. cit.*, IX, Sect. B, 384 (1914).

var. **aconitus**, Don., Zeits. f. Hyg. XLI (1902).
Chris., Ind. Jour. Med. Res. III, 475.
Myzomyia albirostris, Theob., Monog. Culic. III, 24, ♂ ♀, fig. 11 (p. 25), palpus and proboscis (1903).
Leices., Culic. Malaya, 23, ♂ ♀: Brun., Rec. Ind. Mus. I, 305; IV, 418.
Myzomyia christophersi, var. *alboapicalis*, Theob., Monog. Culic. V, 25 (1910).
A. brahmacharii, Chris., Paludism, No. 5, p. 11 (1912).
Id., Brahmachari, Ind. Med. Gaz. XLVI, 268 (1911).
Myzomyia flavirostris, Ludl., Bull. No. 4, Surg. Gen. Office (1913): Psy. XXI, 30 (1914).

Sylhet, Central India, Meenglass, Jalpaiguri, 13-vii-07 [*Wallich*]; Calcutta [*Alcock*]; Burma, Assam, Kangra Valley, Kuala Lumpur, Pokfulam, Hongkong [*Rees*]; Pampanga and Phil. Is. (var. locs.), ii, and v to xi [*I. Ludlow*]. *Mangyana* comes from Rio Baco, Chicago, Mindoro (Phil. Is.), v [*McGregor*]. *Type* of *minimus* in Dr. Rees collection. *Types* of *christophersi* and *alboapicalis* in British Museum, of *brahmacharii* in Central Malaria Bureau, Kasauli, of *flavirostris* in Army Medical Museum, Washington, of *febrifer*, ♂ ♀, No. 18,015 in Bureau of Science, Entom. Coll., Manila; of *mangyana* in Ent. Coll No. 3290, Bureau of Science, Manila

Christophers in a recent paper sinks this species as synonymous with var. *vanus*, Theob. of *sinensis*, Wied.

stephensi Liston, Ind. Med. Gaz. XXXVI, 441, no sex stated, apparently ♀ (1901).
James, Sci. Mem. Ind., No. 2, 45, fig. 23, wing, 24, larval chars.: Giles, Handbk., etc., 2nd ed., 331, ♀ (footnote): James and List., Anoph. Mosq. Ind., 113, pl. vi, 2, larval figs.; pl. x, 6, wing scales; col. pl. xiii, full ins. ♀: Chris., Ind. Jour. Med. Res. III, 481.
Neocellia stephensi, James, Monog. Anoph. Mosq. Ind., 2nd ed., col pl. xii, full ins. ♀.
Nyssorhynchus stephensi, Theob., Monog. Culic. III, 93, ♀; fig. 54, var. wing marks; fig. 55, wing; figs., pp. 40, 47, larval hairs: Blanch., Moust., 210: Brun., Rec. Ind. Mus. I, 319; IV, 430.
Anopheles metaboles, Theob., Proc. Royal So. LXIX, 374, ♀; pl. v, 1, wing, ♀ (1902): Giles, Handbk., etc., 2nd ed., 512.
Neocellia intermedia, Rothwell, Entom., ♀ (1907).

Theob., Monog. Culic. IV, 115, ♀; V, 73, ♂ ♀, fig. 29, wing ♂: Brun., Rec. Ind. Mus. IV, 432.

N.W. Frontier, Deesa, W. Centr. India, i, viii, Mian Mir, Ferozepore, v to xi [*t. Adie*]; Nagpur, Ellichpore, Madras City, Karachi, common, Calcutta, 1-viii-07 [*Annandale*]; Lushai Hills, Assam, 9-vii-04 [*Macleod*]; Burma, Philippines [*t. Ludlow*]. *Types* of *metaboles* and *intermedia* in British Museum; location of that of *stephensi* unknown to present author.

Major Christophers notes that though Theobald (Monog. IV, 96) denies that *metaboles*, Theob., is synonymous with *stephensi*, List., yet his (Theobald's) *description* of *metaboles* is one of *stephensi*.

funestus Giles, Mem. Liv. Sch. Trop. Med., p. 50, pl. v (1900).

Giles, Handbk., etc, 162, pl. vii, 3, wing: Theob., Monog. Culic. I, 178, ♂ ♀; var. chars. figd.; pl. iv, 13, full ins. ♀, col; IV, fig. 10, ♂ genitalia; V, 17: Newstead, Ann. Trop. Med. Paras. I, 9.

Myzomyia funesta, Theob., Monog. Culic. III, 34, pl. ii, wing ♀: *id.*, Gen. Ins., Fasc. 26, pl. i, 2, full ins. col. ♀: Brun., Rec. Ind. Mus. I, 306; IV, 419: Blanch., Moust., 180, ♂ ♀.

var. listoni List.

Anopheles listoni, List., Ind. Med. Gaz. XXXVI, 441, ♀ (1901). nec *listoni*, Giles, ♀.

Myzomyia listoni, Theob., Monog. Culic. III, 27, ♀; fig. 12, palpus ♂ and wing scale; fig. 13, wing; fig. 17 (p. 40), larval hairs: James, Monog. Anoph. Mosq. Ind., 2nd ed., pl. iv, full ins. col. ♀ (on plate as *Anoph. fluviatilis*): Brun., Rec. Ind. Mus. I, 308; IV, 420: James, Sci. Mem. Med. Off. Ind., No. 2, 31, fig. 9.

Anopheles fluviatilis, James, Sci. Mem Med. Off. India, No. 2, p. 31, fig. 9 (1902): Theob., Proc. Roy. So. LXIX, 378, ♀; pl. v, 3, wing, ♀ (1902): James and List., Anoph. Mosq. Ind., 103, pl. vii, 1, larval figs.: col. pl. x, full ins. ♀.

var. leptomeres Theob.

Myzomyia leptomeres, Theob., Monog. Culic. III, 38, ♀ (1903).

Id., loc. cit, IV, 124; V, 29: Brun., Rec. Ind. Mus. I, 307; IV, 419.

Type of *funestus* doubtful if in existence, of *leptomeres* in British Museum.

A. funestus, Giles, is an African species, of which the typical form has not been recorded from India though it is common in the Philippines, and references to it are given at the top of this list to aid identification. Theobald describes two African varieties, *umbrosa* and *subumbrosa*, of which the latter may be identical with the *leptomeres* variety. Giles is wrong in considering the var. *leptomeres* identical with *pictus*, Lw. The form *listoni* is generally distributed in India, N.W. Frontier, Assam, Ceylon [*Green*]; Central India, Burma, Western India, Sylhet, 21-i-05; 2-ii-05; 2-v-05 [*Hall*]; Perak. Some con-

fusion has arisen here over the name *listoni* by the form being at first considered identical with Giles' "*listoni*," as described by Capt. Liston, who, however, was unknowingly describing a new species; and as the real *listoni* of Giles proves synonymous with *culicifacies*, Giles, the name *listoni* must stand good for Capt. Liston's variety. See my notes and synonymy, Rec. Ind. Mus. I, 305, 306, 308 and IV, 420; also Major Christophers, Ind. Jour. Med. Res. III, 181.

maculipalpis Giles, Handbk., etc., 2nd ed., 279, ♂ (1902).

James and List., Anoph Mosq. Ind., 95, pl. iv, larval figs.; pl. x, 5, wing scales; col. pl. vii, full ins. ♀: Chris., Ind. Jour. Med. Res. III, 472.

Nyssorhynchus maculipalpis, Theob., Monog. Culic. III, 96, ♀; fig. 56, var. chars.; pl. ii, two ♀ wings; fig. (p. 98), larval hairs: Brun., Rec. Ind. Mus. I, 319; IV, 429: James, Monog. Anoph. Mosq., Ind., 2nd ed.; col. pl. ix, full ins. ♀.

Nyssorhynchus maculipalpis, Giles, var. *indiensis*, Theob., Monog. Culic. III, 99 (1903): Brun., Rec. Ind. Mus. I, 319.

Nyssorhynchus indiensis, Theob., Monog. Culic. IV, 98: Brun., Rec. Ind. Mus. IV, 428.

Anopheles indiensis, James and List., Anoph. Mosq. Ind., 95, pl. ii, figs.

Anopheles jamesii, Theob., Monog. Culic. I, 134, ♀; pl. i, 2, ♀, full ins. col. (1901).

Giles, Handbk., etc., 2nd ed., 299, ♀: James, Sci. Mem. Med. Off. Ind., No. 2, 41: James and List., Anoph. Mosq. Ind., 93; col. pl. vi, full ins., ♀: Chris., Ind. Jour. Med. Res. III, 468: Stephens and Chris., Rep. Roy. So. Malaria, 1902.

Nyssorhynchus jamesii, Blanch., Moust., 206: Brun., Rec. Ind. Mus. I, 318; IV, 429; James, Monog. Anoph. Mosq. Ind., 2nd ed., col. pl. viii, full ins. ♀: Stephens and Chris., Rep. Roy. So. Malaria, 1902.

India [*Christophers*, Stephens]; N.W. Frontier, Indo-Gangetic Plain, Central Provinces, Lower Ranges Himalayas, Shahjahanpore, Ferozepore, Nagpur, Ellichpore, Bombay, Karwar, Deccan, Goa, Shamnagar, Calcutta, Port Canning, Quilon, Travancore, Ceylon, Pangasinam, Phil. Is.; also occurs in Mashonaland and Mauritius. *Type* of *maculipalpis* in British Museum.

Theobald considered (Monog. IV, 98) his "*maculipalpis*, Giles, var. *indiensis*, Theob." (of Monog. III, 99) to be a distinct species from *maculipalpis*, Giles, typical form, but he ranked "*maculipalpis*, Giles of James and Liston" as synonymous with *indiensis*.

aconitus Don., Beit. Kennt., z. d. Anoph. 70, ♀ (1902).

Don., Zeits. f. Hygiene XLIII, 233: Theob. Monog. Culic. III, 30; fig. (p. 31), wing ♀.

Myzomyia aconita, Brun., Rec. Ind. Mus. I, 305.

Anopheles aconitus, *id.*, *loc. cit.*, IV, 415 (*aconita*): Stanton, Ind. Jour. Med. Res. III, 252.

? *A. formosaensis*, Tsuzuki.[1]

Kajoe Tanam; Willen Is.; Soekaboemi, Java [*l. Donitz*]; Deli. Sumatra, iii-14; Lampongs, Sumatra, vi-14 [*l. Stanton*]. *Type*, location unknown to present author.

Vide Brun., Rec. Ind. Mus. IV, 415 for note on presumed variety *formosaensis*, and suggested change of name to *cohaesa*. Stanton considers (*loc. cit.*) that *albirostris*, Theob., is synonymous with this species.

jeyporiensis James, Sci. Mem. Ind., No. 2, 32; fig. 11, wing; fig. 12, larval chars. (1902).

James and List., Anoph. Mosq. Ind., 101, pl. vii, 2, larval figs.; col. pl. ix, full ins. ♀: Chris., Ind. Jour. Med. Res. III, 468.

Pyretophorus jeyporiensis, Theob., Monog. Culic. III, 66; pl. viii, wing scales: James, Anoph. Mosq. Ind., 2nd ed., col. pl. vi, full ins. ♀; fig. (p. 67), palpus ♂: Brun., Rec. Ind. Mus. I, 313 (*jeyporensis*).

Jeypur State [*Christophers, Stephens*]; Jakot, S. India [*Aitken*]; Nagpur [*James*]; Bombay, Central Provinces, India, Castle Rock, N. Kanara Distr. *Types* in British Museum.

formosaensis Tsuzuki, Archiv. f. Schiffs. v. Tropen Hygiene VI, 289 (1902).

Theob., Monog. Culic. V, 84: Brun., Rec. Ind. Mus. I, 323; IV, 415, notes.

Formosa. *Type*, location unknown to present author.

There are apparently two species of the same name by the same author from North and South Formosa respectively. *Vide* my notes (*loc. cit.*, *supra*). Theobald (Monog. V) says that Donitz (Zeits. f. Hygiene XLIII, 233) says this species is only a variety of *aconita*, Don., and proposes, unnecessarily, to change the name to *cohaesa*.

pulcherrimus Theob., Proc. Roy. So. LXIX, 396, ♀; pl. v, 2, wings, ♀ (1902).

James, Sci. Mem. Ind., No. 2, p 48; fig. 26, wing: James and List., Anoph. Mosq. Ind., 86, col. pl. iv, full ins. ♀: Giles, Handbk., etc., 2nd ed., 510, ♀: Chris., Ind. Jour. Med. Res. III, 476.

Cellia pulcherrima, Theob., Monog. Culic. III, 107: Blanch., Moust., 215, ♀: Brun., Rec. Ind. Mus. I, 321; IV, 432.

James, Monog. Anoph. Mosq. Ind., 2nd ed., col. pl. xiii, full ins., ♀.

Mian Mir, near Lahore [*James*]; Ferozepore, vii to xii [*Adie*]; Goa [*James* and *List.*]; Purneah, 7-viii-07 [*Paiva*]; also occurs at Kokand, Turkestan [*Univ. Coll. Helsingfors*]. *Type* ♀ in British Museum, ♂ apparently still unknown.

pseudobarbirostris Ludl., Jour. N.Yk. Ent. So. X, 127, ♀ (*Myzorhynchus*) (1902).

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[1] Vide *A. formosaensis*, Tsuzuki, p. 105.

Myzorhynchus pseudobarbirostris, Theob., Monog. Culic. IV, 83, ♀: Brun., Rec. Ind Mus. I, 315; IV, 426.

Philippines, generally distributed, May to October. *Type* in Army Medical Museum, Washington.

philippinensis Ludl., Jour. N.Yk. Ent. So. X, 128 (1902); also Jour. Amer. Med. Assn. XXXIX, 426 (1902).

Nyssorhynchus philippinensis, Theob., Monog. Culic. IV, 103, ♀: Brun., Rec. Ind. Mus. I, 319; IV, 430.

Philippines, common, June to January. *Type* in Army Medical Museum, Washington.

aitkenii James in Theob., Monog. Culic. III, 22, ♀ (1903).

James and List., Anoph. Mosq. Ind., 119; pl. ix, 3, wing scales; pl. xiii, larval figs. and wing: Blanch., Moust., 620: Brun., Rec. Ind. Mus. I, 303; IV, 415: Chris., Ind. Jour. Med. Res. III, 461.

Neostethopheles aitkenii, James, Anoph. Mosq Ind., 2nd. ed., 59; figs.

Stethomyia fragilis, Theob., Entom. XXXVI, 257, ♂ (1903): Brun., Rec. Ind. Mus. I, 312; IV, 423.

Stethomyia pallida, Ludl., Can. Ent. XXXVII, 129, ♀ (1905): Brun., Rec. Ind. Mus. I, 312; IV, 423.

Goa Frontier [*Aitken*]; Karwar [*Dr. Cogill*]; Meenglas, Jalpaiguri, 9-viii-07 [*Wallich*]; Bengal Duars, Nilgiri Hills, Bengal, Assam, Kuala Lumpur, i, xii [*Durham*]; Burma, Pampanga, ix-05 [*t. Ludl.*]. *Type* of *aitkenii* in British Museum.

Major Christophers states that there is an individual labelled "type specimen" by James in the Central Malaria Bureau, Kasauli. He also considers *Stethomyia fragilis*, Theob., *S. pallida*, Ludl. and *Anopheles treacherii*, Leices., synonymous with *aitkeni*.

immaculatus James, Sci. Mem. Ind., No. 2, 35 (1902).

Theob., Monog. Culic. III, 23, ♀ (1903): James and List., Anoph. Mosq. Ind., 120: Brun., Rec. Ind. Mus. I, 304; IV, 416: Chris. Ind. Jour. Med. Res. III, 468.

Ennur, Madras Coast [*James* and *List.*]. *Type* in British Museum, unique.

.On the ground of the brief description of fine words only, "wings entirely unspotted, legs unbanded" being insufficient I attributed the species in my Catalogue to Theobald instead of James, but on Major Christophers' plea that such diagnosis differentiated it from all other known species, the original author's name is here restored, though such "descriptions" are to be deprecated.

ludlowi Theob., Monog. Culic. III, 42 (*Myzomyia*) (1903).

Roper, Bull. Ent. Res. V, 145: Chris., Ind. Jour. Med. Res. III, 470.

Myzomyia ludlowi, Banks, Phil. Jour. Sci. II, 519, life-history; pls. i to xi; pl. v, full ins. ♂ ♀: Brun., Rec. Ind. Mus. I, 309; IV, 420.

Nyssomyzomyia ludlowi, James and List., Monog. Anoph. Mosq. Ind , 2nd ed., 101.

Madras, Ceylon, Singapore [*Biro*]; Burma; Deli, Sumatra, iii-14, Andaman Is., Phil. Is., common, var. locs. [*I. Ludlow*]. *Type* in British Museum.

palestinensis Theob., Monog. Culic. III, 71, ♂ ♀; fig. 46, head and thorax; 47, two wings, ♀; ♂ genitalia; pl. vi, wing scales, ♀ (*Pyretophorus*) (1903).

Edw., Jour. Asiat. Soc. Beng. IX, 48 (1913): Waterston, Bull. Ent. Res. IX, 4.

Anopheles nursei, Chris., Ind. Jour. Med. Res. III, 475.

Pyretophorus nursei, Theob., Monog. Culic. IV, 66, ♀ (1907). Brun., Rec. Ind. Mus. IV, 424.

Pyretophorus cardamitis, Newstead and Carter, Ann. Trop. Med. Paras. IV, 379 (1910).

? *Anopheles superpictus*, Grassi, Reale Accad. Linc., 78 (1900).

Anopheles superpictus, var. *macedoniensis*, Cot. and Hovasse, Bull. Soc. Path. Exot. X, 890, fig. (1917).

Quetta, xi [*Nurse*]. Occurs in Palestine on Beyrouth River, vi [*Cropper*]; Cyprus, common up to 4000 ft. [*Miss D. M. A. Bate*]; Athens, Kashan, Persia, 8-xi-11, ♀ [*Cropper*]. *Type* of *nursei* in British Museum, location of that of *palestinensis* unknown to present author.

umbrosus Theob., Monog. Culic. III, 87, ♀; fig. 87, wing (*Myzorhynchus*) (1903).

Roper, Bull. Ent. Res. V, 146.

Myzorhynchus umbrosus, Leic., Culic. Malaya, 35, ♀ (*Myzorhyncus*): Brun., Rec. Ind. Mus. I, 316; IV, 427: Strickland, Bull. Ent. Res. IV, 140.

Malay States, Pahang [*Dr. Durham*]; Kuala Lumpur, Deli, Sumatra, iii-14. *Type* in British Museum

albotaeniatus Theob, Monog. Culic. III, 88, ♀; pl. i, wing; pl. v, wing scales (*Myzorhynchus*) (1903).

Roper, Bull. Ent. Res. V, 147: Stanton, Ind. Jour. Med. Res. III, 252.

Myzorhynchus albotaeniatus, Leices., Culic. Malaya, 34, ♀ (*Myzorhyncus*): Brun., Rec. Ind. Mus. I, 313; IV, 424: Strickland, Bull. Ent. Res. IV, 140.

Myzorhynchus alboannulatus, James and List., Anoph. Mosq. Ind., 81 (1904).

Perak [*Wright*]; Kuala Lumpur; Port Swettingham; Deli, Sumatra, iii-14. *Type* in British Museum.

var. **montanus** Stanton and Hacker, Bull. Ent. Res. VII, 273, ♂ ♀ (1916-17).

Ulu Gombak, Selangor, 600 ft.

willmori James in Theob., Monog. Culic. III, 100, ♀; fig. 59, palpus ♀, fig. 60, var. scales; (*Nyssorhynchus*) (1903).

Chris., Ind. Jour. Med. Res. III, 484.

Nyssorhynchus willmori, Blanch., Moust., 624: Brun., Rec. Ind. Mus. I, 321; IV, 430

nec *willmori*, Leices.

Neocellia willmori, var. *maculosa*, James and List., Anoph. Mosq. Ind., 2nd ed., 112 (1911).

Neocellia indica, Theob., Monog. Culic. IV, iii, ♂ ♀ (1907): Brun., Rec. Ind Mus. IV, 432

Neocellia dudgeoni, Theob., Monog. Culic. IV, 112, ♀ (1907). Brun., Rec. Ind Mus IV, 432.

Kashmir, 4800 ft. [*Willmore*]; Dehra Dun, ii, iii; Lahore, Jalpaiguri, 13-vii-07 [*Wallich*]; Kangra Valley, 4500 ft., vi, vii [*Dudgeon*]; Pundaluoya, Ceylon, vii [*Green*]; Kuala Lumpur, Jugra, Malay Peninsula [*t. Leicester*]; Ula Gombak. *Type* of *maculosa* in Central Malaria Bureau, Kasauli; of *willmori*, *indica* and *dudgeoni* in British Museum: Roper thinks (Bull. Ent. Res. V, 143) that this species is synonymous with *maculatus*, Theob.

karwari James in Theob., Monog. Culic. III, 102, ♀; fig. 61 (p. 103), wing; (*Nyssorhynchus*) (1903).

Anopheles karwari, James and List., Anoph. Mosq. Ind., 89; pl. xiv, var. chars.; fig., p. 90, wing: Chris., Ind. Jour. Med. Res. III, 469.

Nyssorhynchus id., Leices., Culic. Malaya, 39, ♂ ♀ (*Nyssorhyncus*): Brun., Rec. Ind. Mus. I, 318; IV, 429.

Anopheles nigrans, Stanton, J. Lond. Sch. Trop. Med. II, No. 1, 7 (1912).

Karwar, vi [*Cogill*]; Goa, 2000 ft., ii [*Aitken*]; Kuala Lumpur, 27-iv-02 [*Durham*]. *Types* of *karwari* and *nigrans* in British Museum: Christophers says that in Theobald's later descriptions of his *maculatus* he has confused *maculatus* and *karwari*.

error Theob., Monog. Culic. III, 353, ♀ (*Aldrichia*) (1903). Theob., Gen. Ins., Fasc. 26, 13.

Aldrichia error, Brun., Rec. Ind. Mus. I, 322.

Aldrichinella error, Theob., Monog. Culic. V, 77: Brun., Rec. Ind. Mus. IV, 433.

"India, probably Calcutta." *Type* in British Museum, now broken: According to Col. Alcock this is not a good species, the unique type being a *Myzomyia rossii*, Giles, with the abdomen of some other species attached.

culiciformis Cogill., Jour. Bomb. Nat. Hist. So. XV, 333 (1903).

Anopheles culiciformis, James and List., Anoph. Mosq. Ind., 122, ♂, ? ♀; pl. xv, larval figs: Chris., Ind. Jour. Med. Res. III, 463: Chris. and Chand, Ind. Jour. Med. Res. III, 638, ♂ ♀ all stages descr.; pl. lix (var. chars.) (*Coelodiazesis*).

Stethomyia culiciformis, Theob., Monog. Culic. IV, 62: Brun., Rec. Ind. Mus. I, 312; IV, 423.

Neostethophcles culiciformis, James and List., Anoph. Mosq. Ind., 2nd ed., 61, figs.
Karwar, Bombay Presidency [*Dr Cogill*]. *Type*, location unknown to present author.

pitchfordi Giles, Jour. Trop. Med. VII, 365 (*Pyretophorus*) (1904).
Pyretophorus pitchfordi, Brun., Rec. Ind. Mus. I, 313.
Pampanga [*Whitmore*]. *Type* in British Museum.

asiatica Leic., Entom. XXXVII, 13, ♂ ♀ (*Lophoscelomyia*) (1904).
Chris., Ind. Jour. Med. Res. III, 462.
Lophoscelomyia asiatica, Theob., Monog. Culic. IV, 92, ♂ ♀ : Brun., Rec. Ind. Mus. I, 317; IV, 427 : Leices., Culic. Malaya, 21, ♂ ♀.
Lophomyia asiatica, Giles, Jour. Trop. Med. VII, 366.
Myzorhynchus asiaticus, Strickland, Bull. Ent. Res. IV, 141.
Kuala Lumpur. *Type* in British Museum.

freerae Banks, Phil. Jour. Sci. I, 993, ♀ (*Pyretophorus*) (1906).
Pyretophorus freerae, Theob., Monog. Culic. V, 43 : Brun., Rec. Ind. Mus. I, 312 ; IV, 423.
Manila, x [*Banks*]. *Type*, apparently unique, No. 5975, in Entom. coll., Bureau of Science, Manila.

nigrifasciatus Theob., Monog. Culic. IV, 65, ♀ (*Pyretophorus*) (1907 .
Pyretophorus nigrifasciatus, Brun., Rec. Ind. Mus. IV, 424.
Peshin, India, iv [*Maj. Nurse*] ; also occurs in Cyprus. *Type* in British Museum.

treacheri Leices., Culic. Malaya, 19, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 417.
Malay Peninsula, widely distributed. *Type* in Leicester's collection. Christophers ranks this as synonymous with *aitkenii*, James.

separatus Leices., Culic. Malaya, 36 (sex not stated, apparently ♀) (1908).
Roper, Bull. Ent. Res. V, 145.
Myzorhynchus separatus, Brun., Rec. Ind. Mus. IV, 426.
Kuala Lumpur. *Type* in Leicester's collection.
Possibly a variety of *sinensis*, Wied.

watsoni Leices., Culic. Malaya, 38, ♀ (*Pyretophorus*) (1908).
Pyretophorus watsoni, Brun., Rec. Ind. Mus. IV, 424.
Klang [*Dr. Watson*]. *Type*, a unique ♀, in Leicester's collection.

formosus Ludl., Can. Ent. XLI, 22, ♀ (1909).
Theob., Monog. Culic. V, 8, ♀ : Brun., Rec. Ind. Mus. IV, 416.
Benguet, Phil. Is., iii-08. *Type* in Army Medical Mus., Washington.

mcgregori Banks, Phil. Jour. Sci. IV, 548, ♂ (*Kerteszia*) (1910).
Kerteszia mcgregori, Brun., Rec. Ind. Mus. IV, 431.

Basalin Is., Phil. Is., 28 xii-06 [*McGregor*]. *Type* in Entom. coll. (No. 6666), Bureau of Science, Manila.

aurirostris Watson, Ann. Trop. Med. Parasit. IV, 251, ♀; fig. wing (1910).

Bred, Klang, xii-09.

fowleri Chris., Paludism II, 64 (*Neocellia*) (1911).

Neocellia fowleri, *id.*, *loc. cit.*, III, pl. vi, var. chars.

Anopheles fuliginosus, var. *fowleri*, Alcock, Jour. Lond. Sch. Trop. Med. II, No. 3 (1913).

Amritsar; Cent. Prov. India, xi to ix; Punjab; South India.

Christophers thinks more recently (Ind. Jour. Med. Res. III, 466) that this may be the *pallida*, Theob., variety of *fuliginosus*, Giles.

wellingtonianus Alcock, Jour. Lond. Sch. Trop. Med. II, 1, 2 text-figs. (*Myzorhynchus*) (1912).

Larut Hills, 4000 ft., Malay Peninsula. *Type* in British Museum.

brevipalpis Roper, Bull. Ent. Res. V, 141, ♂ ♀, fig. 1, wing, proboscis ♀, front claw ♂ (1914).

Strickland, Ind. Jour. Med. Res. III, 201, larva.

Borneo. *Types* in British Museum. Strickland (*loc. cit.*) suggests *Memnemvia* as a new genus to receive this species on account of minor differences.

schnuffneri, Stanton, Bull. Ent. Res. V, 373 ♀; fig. 1, proboscis, palpus (1915).

Lampongs Distr., South Sumatra, v, vi, 1914 [*Dr. Schuffner*].

hunteri Strickland, Ind. Jour. Med. Res. IV, 263, ♂ ♀, figs. var. chars. (*Myzorhynchus*) (1917).

Tebong, Negri Sembilan, Malay Peninsula, vi-14; Bandar Penggaram, ix-15; Sungei Simpang, Kanan, Johore State [all *Strickland*]; Singapore [*Dr. Hunter*].

novumbrosus Strickland, Ind. Jour. Med. Res. VI, 271, ♂ ♀ (*Myzorhynchus*) (1917).

Malay Peninsula.

annandalei Prashad, Rec. Ind. Mus. XV, 123, ♂, pl. xvii, wing, larva, var. chars; life-history also described (1918).

Sureil, Darjiling District, 5000 ft., 28-x-17 [*Annandale* and *Gravely*].

pampangensis nom. nov. (*philippinensis* Ludl. preocc.).

Pyretophorus philippinensis, Ludl., Can. Ent. XXXVII, 135 (1905): Brun., Rec. Ind. Mus. I, 313.

Pampanga [*Whitmore*]. *Type* in Army Med. Mus., Washington.

This species of Miss Ludlow's has to be renamed as *Nyssorhynchus philippinensis*, Ludl. is of course an *Anopheles* in the present author's view of the genus.

In an editorial note in the Ind. Jour. Med. Res. IV, 611, mention is made of a new species *A.* (*Myzorhynchus*) *similis*, Strickland, from the Malay States. The larva is "described" in three lines, the adult is "described" as being "indistiguishable from *umbrosus*."

Bironella, Theob.

Ann. Mus. Hung. III, 69 (1905).

Theob., Monog. Culic. IV, 120, ♂; fig. ♂, wing (p. 122).

GENOTYPE, *B. gracilis* Theob., by original designation.

gracilis Theob., Ann. Mus. Hung. III, 69, ♂; fig. 3, scales; pl. ii, wing ♂; pl. iii, wing scales ♂ ("♀" lapsus).

Theob., Monog. Culic. IV, 121, ♂: fig. of wing, p. 122: Brun., Rec. Ind. Mus. I, 322; IV, 433.

Muina, Papua, 31-xii-1900 [*Biro*]. *Type*, unique, in the Hungarian Museum. Howard, Dyar and Knab think this genus may be a transitional form between *Anopheles*, *Megarhinus* and *Uranotaenia* (Mosq. N. and Cent. Am. and W. Ind. 899).

Calvertina Ludlow.

Can. Ent. XLI, 234, emend. from *Calvertia* Ludl., *loc. cit.*, 22 (1909).

Calvertia preocc. Warren in Lepidoptera.

GENOTYPE, *Chagasia lineata* Ludl., by original designation.

lineata Ludl., Can. Ent. XL, 50 (*Chagasia*) (1908).

Calvertia lineata, Ludl., Can. Ent. XLI, 22.

Calvertina lineata, *Id.*, *loc. cit.*, XLI, 234: Theob., Monog. Culic. V, 77: Brun., Rec. Ind. Mus. IV, 433.

Pangasinan, viii. *Type* in Army Med. Mus., Washington.

Sect. CULICINI.

This "Section" comprises the whole of the subfamily Culicinae except the Anophelines, but is not herein assigned equivalent or any definite taxonomic value, being only adopted as a temporary convenience to separate them from the Anophelines.

Megarhinus, R. Desv.

Mém. Soc. Hist. Nat. Paris III, 412 (1827).

Macq., Hist. Nat. Dipt: Skuse, Proc. Linn. Soc. N.S. Wales III, 1720: Theob., Monog. Culic. I,

215; III, 113; IV, 128, tab. spp.: Blanch., Moust., 200, 221, tab. spp.: Theob., Gen. Ins., Fasc. 26, 12: Brun., Rec. Ind. Mus. I, 323; IV, 435; X, 65: How., Dyar and Knab, Mosq. N. Amer., etc., IV, 927.

Megarhina, Giles, Handbk., etc., 119; 2nd ed., 265: *Auctt.*

GENOTYPE, *Culex haemorrhoidalis* Fab., by original designation.

The genus *Megarhinus* is not Oriental, but the species belonging to *Toxorhynchites* were originally assigned to it, therefore a few references are given here.

Toxorhynchites, Theob.

Monog. Culic. I, 244 (1901).

Theob., *loc. cit.*, III, 119, notes on life-history; V, 95, notes and tab. spp: *Id.*, Gen. Ins., Fasc. 26, 13: Blanch., Moust., 229: Leices., Culic. Malaya, 59: Brun., Rec. Ind. Mus. I, 324; IV, 435; X, 72: Giles, Handbk., etc, 2nd ed., 278.

GENOTYPE, *T. brevipalpis* Theob., by original designation.

Teromyia Leices., Culic. Malaya, 49 (1908).

GENOTYPE, *T. acaudata*, Leic., sp. nov, *loc. cit.* by my designation, 1914.

Brun., Rec. Ind. Mus. IV, 438, notes.

Worcesteria, Banks, Phil. Jour. Sci. I, 779 (1906).

GENOTYPE, *W. grata* Banks, sp. nov., *loc. cit.*

Theob., Monog. Culic. V, 110: Brun., Rec. Ind. Mus. I, 326; IV, 439; X, 73.

splendens Wied., Zool. Mag. III, 2, ♂ (*Culex*) (1819).

Culex splendens, Wied., Auss. Zweifl. I, 3, ♂: Macq., Hist. Nat. Dipt. I, 33.

Megarhinus splendens, Sch., Reise Novara, Dipt., 31: Wulp, Mid-Sumatra, Dipt. 8; pl. i, 2, wing: Theob., Monog. Culic. I, 235, pl. viii, 31, ♀, full ins. col: Giles, Handbk., etc., 124; 2nd ed., 271 (*Megarhina*): Blanch., Moust., 225: Brun., Rec. Ind. Mus. I, 324.

Toxorohynchites splendens, Brun., Rec. Ind. Mus. IV, 437.

Java, Sumatra, Singapore. *Types* in Wiedemann's and Westermann's collections. Not recorded in recent years, probably one or more of the more recently described species may be synonymous with it.

amboinensis Dol., Nat. Tijd. Ned. Ind. XIV, 381, ♂, pl. v, 5 (*Culex*) (1857).

Megarhina amboinensis, Giles, Handbk., etc., 133; 2nd ed., 276.

Megarhinus amboinensis, Theob., Monog. Culic. I, 243 ♂:

Blanch., Moust., 226, ♂ ♀: Brun., Rec. Ind. Mus. I, 323, notes.

Toxorhynchites amboinensis, *id.*, *loc. cit.*, IV, 435.
Amboina, Ceram. *Type* in Vienna Museum.

subulifer Dol., Nat. Tijd. Ned. Ind. XIV, 382, ♀, pl. v, 2 (*Culex*) (1857).

Megarhinus subulifer, Theob., Monog. Culic. I, 242: Giles, Handbk., etc., 125; 2nd ed., 272 (*Megarhina*).

Toxorhynchites subulifer, Theob., Monog. Culic. V, 101: Brun., Rec. Ind. Mus. IV, 437: Edw., Bull. Ent. Res. VII, 202.
Amboina, Ceram. *Type* in Vienna Museum.

In my Catalogue this species was given as synonymous with *immisericors*, Walk., but, following other authors, the two were ranked as distinct in the Supplement. Edwards notes[1] that there is nothing in Doleschall's description of *subulifer* to prevent it being the same as *immisericors*, in which case the Dutch author's name takes precedence. He adds that Doleschall also described *amboinensis*, which he afterwards took to be the ♂ of his *subulifer*, and if that opinion should prove correct, the species is distinct from *immisericors*. This would be true but if *amboinensis* and *subulifer* are respectively ♂ and ♀ of a single species, the former name must be used because the description precedes that of *subulifer* by a page (pp. 381 and 382 respectively). Until the identity of all three alleged species is settled they may be regarded as provisionally distinct.

immisericors Walk., Proc. Linn. Soc. Lond. IV, 90, ♂ (*Megarhinus*) (1860).

Megarhinus immisericors, Theob., Monog. Culic. I, 225, ♂ ♀, pl. vii, 28, ♂, full ins. col.; pl. ix, 33, ♀ (as *M. gilesii*): Giles, Handbk., etc., 129; 2nd ed., 273 (*Megarhina*).

Megarhinus gilesii, Theob., Monog. Culic. I, 227, ♂ ♀; pl. ix, 33, ♀, full ins. col. (1901).

Toxorhynchites immisericors, Theob., Monog. Culic. III, 123, fig. 67, larva, pupa; IV, 141; V, 97, ♀: *id.*, Rec. Ind. Mus. IV, 4, ♀ redescr.: Blanch., Moust., 230, ♂: Brun., Rec. Ind. Mus. I, 324; IV, 436, notes: Green, Spol. Zeyl. II, 159, pl. life-history: Paiva, Rec. Ind. Mus. V, 187, larval habits: Edw., Bull. Ent. Res. IV, 222.

Toxorhynchites gilesii, Theob., Monog. Culic. V, 99.
Brun., Rec. Ind. Mus. IV, 435.

Toxorhynchites argenteotarsis, Ludl., Can. Ent. XXXVIII, 367, ♀ (1906).
Theob., Monog. Culic. V, 100, ♀: Brun., Rec. Ind. Mus. IV, 435.

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[1] Bull. Ent. Res. IV, 223 under *immisericors*.

Megarhinus immisericors, Walk., or *amboinensis*, Dol., Ost. Sack., Berl. Ent. Zeits. XXVI, 96.

Worcesteria grata Banks, Phil. Jour. Sci. I, 780, ♂ ♀, pl. palpus ♂, genitalia ♂, cross-veins ♂ ♀, scales, etc. (1906): Theob., Monog. Culic. V, 111: Brun., Rec. Ind. Mus. I, 326.

Culex regius, Thwaites, Proc. Linn. Soc. Lond. VIII, 102 (1864).[1]

Toxorhynchites regius, Edw., Bull. Ent. Res. VII, 202.

? *Megarhinus subulifer*, Dol., Nat. Tijd. Ned. Ind. XIV, 382 (1857).

Common and widely distributed in the East. Bhim Tal, 19–22-x-06 [*Annandale*]; Sikkim, 1800 ft., vi [*Dudgeon*]; Sylhet, 5-v-05 and vi; Chittagong, 3-ix-08; Aijal, Lushai Hills, 3600 ft., 24-iv-04; Upper Burma [*Watson*]; Calcutta, i, vi, vii, viii [*Annandale*, etc.]; Peradeniya (Botan. gardens), 1500 ft., not uncommon; Pundaluoya, Ceylon, 4000 ft. [*Green* and *T. B. Fletcher*]; Trincomalee Hot Wells, Travancore, Mysore, Macassar; Andaman Is., Waigion; North Ceram; Mysol; Settleberg (Huon Gulf), Papua [*Biro*]; Bago, Negros Occidental, Cebu (Phil. Is.). *Types* of *immisericors* and *gilesii* in British Museum in bad condition; of *C. regius* in Hope coll., Oxford University; of *W. grata* in Entom. Coll., Bureau of Science, Manila, Nos. 6071, ♂ ♀.

inornatus Walk., Proc. Linn. Soc. Lond. VIII, 102, ♂ (*Megarhinus*) (1865).

Megarhinus inornatus, Theob., Monog. Culic. I, 223, ♂ ♀, pl. vii, 26, ♂, 25, ♀ (both full ins. col.): Giles, Handbk, etc., 137, 2nd ed., 271, ♂ ♀ (*Megarhina imnornata*, lapsus): Blanch., Moust., 223, ♂ ♀.

Toxorhynchites inornatus, Brun., Rec. Ind. Mus. I, 325; IV, 436.

Papua. *Type* ♂ ♀ in British Museum.

leicesteri Theob., Entom. XXXVII, 36, ♂ ♀ (1904).

Theob., Mong. Culic. IV, 142, ♂ ♀: Leices, Culic. Malaya, 59, ♂ ♀: Brun., Rec. Ind. Mus. I, 325; IV, 437.

Kuala Lumpur; Papua. *Types* in British Museum.

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[1] I decline to accept Edwards' suggestion to adopt the name *regius* by Ternent (1859) in place of *immisericors*. A "description" of a line or two (in this case six words only) is no *scientific* description at all properly so called, even in the case of a species recognizable by it. Moreover, there is, as Edwards himself admits, a second though rare species of *Toxorhynchites* occurring in Ceylon and presumably the "description" of *regius* ("one with a formidable hooked proboscis") would equally apply to the other species, *minimus*, Theob., the character being generic. Ternent is not known, so far as I am aware, as an entomologist, the species was not scientifically described nor is "Ceylon" the journal in which it was published a scientific publication.

In the same paper (Bull. Ent. Res. VII, 202) Edwards notes having found on re-examining Walker's types of *immisericors*, from Celebes, that they are different from the species generally known from the East under this name, and he believes them probably identical with *subulifer*, Dol. I do not care, without a close examination of Doleschall's type if such be still in existence, to alter the present view of *immisericors* (that is, Theobald's), but if Edwards' latest opinion should prove correct, it leaves Theobald's form without a name.

metallicus Leices. in Theob., Entom. XXXVIII, 37, ♂ ♀ (1904).
Leices., Culic. Malaya, 61, ♂ ♀: Theob., Monog. Culic. IV, 144, ♂ ♀: Brun., Rec. Ind. Mus. I, 325; IV, 437.
Kuala Lumpur [*Leicester*]. *Types* in British Museum.

lewaldii Ludl., Can. Ent. XXXVI, 233, ♂ (*Megarhinus*) (1904).
Theob., Monog. Culic. IV, 139, ♂; Brun., Rec. Ind. Mus. IV, 437.
Megarhinus lewaldii, Brun., Rec. Ind. Mus. I, 324.
Megarhinus waldii, Blanch., Moust., 625.
Salog (Guimaras Is.), Philippine Is., iv [*Lewald*]. *Type* in Army Medical Museum, Washington.

minimus Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 237, ♂, pl. A, fig. 1, palpus, wing, tip of abdomen (1905).
Brun., Rec. Ind. Mus. I, 324; IV, 437.
Megarhinus minimus, Theob., Monog. Culic. IV, 138, ♂: Brun., Rec. Ind. Mus. I, 324.
Yatiyantota, Ceylon. *Type* in British Museum.

acaudata Leices., Culic. Malaya, 49, ♂ ♀ (*Teromyia*) (1908).
Teromyia acaudata, Brun., Rec. Ind. Mus. IV, 438.
Singapore (*Finlayson*). *Types* in Leicester's collection.

quasiferox Leices., Culic. Malaya, 51, ♂ ♀ (*Teromyia*) (1908).
Edw., Bull. Ent. Res. IV, 223.
Teromyia quasiferox, Brun., Rec. Ind. Mus. IV, 439.
Toxorhynchites javaensis, Theob., Tijd. v. Ent. LIV, 233 (1911).
Brun., Rec. Ind. Mus. IV, 436.
Java, Singapore, Malay Peninsula. *Type* of *quasiferox* in Leicester's collection; of *javaensis*, a unique ♀ from Java, in Amsterdam Museum.

magnificus Leices., Culic. Malaya, 54, ♂ ♀ (*Teromyia*) (1908).
Edw., Bull. Ent. Res. IV, 223.
Teromyia magnificus, Brun., Rec. Ind. Mus. IV, 438.
Teromyia funesta, Leices., Culic. Malaya, 58, ♂ (1908).
Malay Peninsula. *Type* of *magnificus* in Leicester's coll., of *funestus*, a unique ♂ bred from bamboo at Kuala Lumpur, in same collection.

raris Leices., Culic. Malaya, 56, ♂ (*Teromyia*) (1908).
Teromyia raris, Brun., Rec. Ind. Mus. IV, 439.
Ulu Klang, Fed. Malay States, a unique bad specimen, the *type* apparently lost, not in Leicester's collection.

ater Daniels, Studies from Institute for Medical Research, Fed. Malay Sts., III, 265, ♂ ♀ (*Teromyia*) (1908).
Teromyia ater, Brun., Rec. Ind. Mus. IV, 438.
Pahang, Malay Peninsula. *Type* apparently lost, not in Leicester coll.

Mucidus, Theob.

Monog. Culic. I, 268 (1901).

Theob., Gen. Ins., Fasc. 26, 17: *id.*, Monog. Culic. III, 132, larva; V, 125 tab. spp.: Giles,

Handbk., etc., 2nd ed., 346; Blanch. Moust., 243: Leices., Culic. Malaya, 69: Brun., Rec. Ind. Mus. IV, 440; X, 39, 66: Alcock, Ent. Med. Off., 104.

GENOTYPE, *Culex alternans* Westw., by personal designation.

laniger Wied., Dipt. Exot. 9, ♀ (*Culex*) (1821).

Culex laniger, Id., Auss. Zweifl. I, 5, ♀: Macq., Dipt. Exot. I, 2, 176: Giles, Handbk., etc., 211.

Mucidus laniger, Blanch., Moust., 244, ♀ (1905): Edw., Bull. Ent. Res. IV, 224.

Mucidus mucidus, Leices. (*nec* Karsch), Culic. Malaya, 69, ♂ ♀ (1908).

Java, Coromandel, Deli, Sumatra, iii-14. *Type* in Copenhagen Museum (*t.* Vienna Museum, *in litt.*); that of *mucidus*, Leicester, in Leicester's coll.

alternans Westw., Ann. Soc. Ent. Fran. IV, 681 (*Culex*) (1835).

Giles, Handbk., etc., 2nd ed., 347, ♂ ♀, pl. xii, 2, wing ♀.

Culex commovens, Walk., Ins. Saund. Dipt. pt. 5, 432 (1896).

Culex hispidosus, Skuse, Trans. Linn. Soc. N.S. Wales, 1726 (1889).

Papua. *Type* in Copenhagen Museum.

mucidus Karsch, Ent. Nachr. 25 (*Culex*) (1887).

nec *Mucidus mucidus*, Leices.

Culex mucidus, Giles, Handbk., etc., 214.

Mucidus mucidus, Theob., Monog. Culic. I, 272, ♀, pl. xi, 42, full ins. col., pl. B, wing scales (1901): Giles, Handbk., 2nd ed., 549, ♀, pl xii, 3, wing ♀: Brun., Rec. Ind. Mus. IV, 440: Edw., Bull, Ent., Res. II, 246.

Kuala Lumpur; Philippine Is. *Type* in Berlin Museum.

africanus, Theob., Monog. Culic. I, 274 (1901).

grahami, *id.*, *loc. cit.*, V, 127 (1910).

scatophagoides Theob., Monog. Culic. I, 277, ♀, pl. E, wing scales, fig. 81 (p. 278), wing, thorax, scales (1901).

Giles, Handbk., etc., 2nd ed., 348, ♀, pl. xii, 1*a*, full ins., 2*a*, venation: Blanch., Moust., 245, ♀: Brun., Rec. Ind. Mus. I, 327: Edw., Bull. Ent. Res. II, 246.

sudanensis, Theob., 3rd Rep. Wellc. Labor., 252 (1908).

Bauria, Bengal, 17-viii-07 [*Tyrie*]; Damukdia Ghat, Ganges Riv., 22-viii-07 [*Paiva*]; Purnea, 5-viii-07 [*Paiva*]; Moradabad, N.W. Pro. Ind., ix [*Close*]; Myingan, Burma. *Type* in British Museum.

Pardomyia, Theob.

Monog. Culic. IV, 280 (1907).

Brun., Rec. Ind. Mus. IV, 460; X, 68.

GENOTYPE, *P. aurantia* Theob., sp. nov., by original designation.

Ekrinomyia, Leices., Culic. Malaya, 71 (1908).
GENOTYPE, *E. aureostriata* Leices, sp. nov., by original designation.

aurantia Theob., Monog. Culic. IV, 280, ♀ (1907).
Edw., Bull. Ent. Res. IV, 224.
Ekrinomyia aureostriata, Leices., Culic. Malaya, 71, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 440.
Kuching, Sarawak, xi [*Barker*]; Kuala Lumpur, Klang. *Type* of *aurantia* in Brit. Mus., of *aureostriata* in Leicester coll.

quadripunctis Ludl. in Theob., Monog. Culic. V, 608 (1910).
Parang, Mindanao, Philippine Is., 26-x. *Type* in Army Medical Mus., Washington.

Armigeres, Theob.

Monog. Culic. I, 322 (1901).

Armigeres, Giles, Handbk., etc., 2nd ed., 384: Edw., Bull. Ent. Res. IV, 224: VII, 202, diag. and tab. spp.: Brun., Rec. Ind. Mus. X, 55

Desvoidya, Blanch., Comp. Rend. LIII, 1035 (1901), *nom. nov.*, for *Armigeres*, Theob., under presumption of preoccupation by *Armiger*, Hartmann, 1840-1842, in Mollusca: Blanch, Moust., 265: Theob., Gen. Ins., Fasc. 26, 17: *id.*, Monog. Culic., IV, 163, tab. spp.; V. 141, tab. spp.: Brun., Rec. Ind. Mus. I, 327: Leices., Culic. Malaya, 74.

Desvoidea, Theob., Monog Culic. III, 134, larva.

Blanchardiomyia, Brun., Rec. Ind. Mus. IV, 440, *nom. nov.*, notes; X, 156

GENOTYPE of *Armigeres*, *Culex obturbans*, Walk., by original designation.

On the structure of the larva and of the male genitalia Edwards provisionally recognises this group as a valid genus, whilst admitting that the female adults cannot be distinguished from *Ochlerotatus*, *Stegomyia* and *Aedes*

The name *Armigeres* is not really preoccupied (*t. mihi*, Rec. Ind. Mus X, 55), *Armiger* not being a homonym. Edwards also notes this fact, but in his latest paper he sinks the genus under *Stegomyia*.

obturbans Walk., Proc. Linn. Soc. Lond., IV, 91, ♀ (*Culex*), (1860).
Culex obturbans, Giles, Handbk, 338.
Armigeres obturbans, Theob., Monog. Culic. I, 323, ♂ ♀; fig. 104, wing, 105, palpus ♀ (incorrect), ungues ♀, ♂ genitalia; fig. 106, ♂, ungues: Edw., Bull. Ent. Res. VII, 205, fig. 2, ♂ genit.
Desvoidea obturbans, Theob., Monog. Culic. III, 138, fig. 75, middle claws ♂, fig. 77, corrected ♂ palpus, fig. 78, ♂ clasper: Theob., *loc. cit.*, IV, fig. 47, head of larva; fig. 48, siphon of larva.

Desvoidya obturbans, Blanch., Moust., 266, ♂ ♀ ; Leices , Culic. Malaya, 75, ♂ ♀ ; notes on varietal forms: Brun., Rec. Ind. Mus. I, 328.

Blanchardiomyia obturbans, Brun., *loc. cit.*, IV, 442 notes.

Culex ventralis, Walk., Proc. Linn. Soc. Lond., V, 144 (1861): Giles, Handbk., 339.

nec *ventralis*, Walk., Proc. Linn. Soc. Lond., VIII, 103.

Armigeres ventralis, Theob., Monog. Culic., pl. xv, 57, full ♀, ins. col.: Giles, Handbk., etc., 2nd ed , 385. ♂ ♀, pl. xiv, 11, venation, 12, claws.

Naini Tal (*Giles*); Kurseong, 5-viii-08 [*Annandale*]; Sukna, 1-viii-08 [*Annandale*]; Sylhet [*Hall*]; Lushai Hills; Behar [*Green*]; Mozufferpore; Rajmahal, 31-vii-07 [*Hodgart*]; Meerut, 25-iv-05 [*Brunetti*]; Madras [*Cornwall*]; Trivandrum, 14-xi-08 [*Annandale*]; Travancore [*James*]; Madulsima, Ceylon, 26-ix-07 [*Green*]; Selangor, 28-x-99 [*Butler*]; Perak [*Wray*]; Singapore, 25-viii-99; Batavia, 27-vi to 9-vii-06 [*Brunetti*]; Semarang, i, ii, iii-04 and viii-05 [*Jacobson*]; Waria River, British Papua [*Fleming Jones*]; Amboina, Celebes, Mysol, Waigiou, North Ceram, Tinghai, Formosa, West Lake, Hankow, 28-viii-07 [*Cornford*]; Foochow [*Rennie*]. *Type* in British Museum, a ♀.

Uranotaenia malayi, Theob., Monog. Culic. II, 258 (1901): Giles, Handbk., 2nd ed., 494, ♀ : Blanch., Moust., 410.

Armigeres malayi, Edw., Bull. Ent. Res. VII, 207, fig. 3, ♂ genit.

Desvoidea fusca, Theob., Monog. Culic. III, 135 (1903), *types* only.

Selangor, 28-x-99; Kuala Lumpur. *Type* in British Museum.

fusca Theob., Monog. Culic. III, 135, ♂ ♀, fig. 75, middle claws ♂, palpus ♂, fig. 76, pupal chars., pl. xvii, larval figs. (*Desvoidea*), (1903).

Desvoidea fusca, Theob., Monog. Culic. IV, 165; V, 142: Brun., Rec. Ind. Mus. I, 327: Leices., Culic. Malaya, 78, ♂ ♀.

Blanchardiomyia fusca, Brun., Rec. Ind. Mus. IV, 441, notes.

Sylhet, iii to vi [*Hall*]; Lushai Hills, Assam, viii [*Macleod*]; Calcutta, v, vii to xii; Jugra and Kuala Lumpur [both *Durham*]; Angeles, Phil. Is. [*Whitmore*]. *Types* in British Museum.

This is a species of uncertain validity. Edwards says that only the *type* ♂ and ♀ in the British Museum are synonymous with *malayi*, but as other specimens have been recorded from various and widely distributed localities, these latter may represent a valid species, which of course will require a new name.

joloensis Ludl., Can. Ent. XXXVI, 236 (*Desvoidea fusca*, var. *joloensis*), (1904).

Desvoidea fusca, var. *joloensis*, Theob., Monog. Culic. IV, 165: Brun., Rec. Ind. Mus. I, 327.

Desvoidya joloensis, Theob., Monog. Culic. V, 143.

Armigeres joloensis, Edw., Bull. Ent. Res. IV, 225 (1908).
Blanchardiomyia joloensis, Brun., Rec. Ind., Mus. IV, 441.
Desvoidya jugraensis, Leices., Culic. Malaya. 77, ♂ ♀ (1908).[1]
Blanchardiomyia jugraensis, Brun., Rec. Ind. Mus. IV, 441.
Jolo, Philippine Is., Jugra, Ampang and E. Coast of Malay Peninsula ; Borneo. *Type* of *joloensis* in Army Medical Museum, Washington, of *jugraensis*, in Leicester coll. Stanton records the *jugraensis* form from Delhi, Sumatra, iii, 14.

aureolineatus Leices., Culic. Malaya, 79, ♀ (*Desvoidya*), (1908).
Blanchardiomyia aureolineata, Brun., Rec. Ind. Mus. IV, 441, notes.
Armigeres aureolineatus, Edw., Bull. Ent. Res. VII, 205, fig. 1, ♂ genit.
Ampang, near Kuala Lumpur. *Type* in Leicester coll.

apicalis Theob., Rec. Ind. Mus. IV, 5, ♀ (*Desvoidea*), (1910).
Armigeres apicalis, Edw., Bull. Ent. Res. IV, 225.
Blanchardiomyia apicalis, Brun., Rec. Ind. Mus. IV, 441.
Stegomyia crassipes, Theob. (nec Wulp), Monog. Culic., I, 320. ♀, pl. xxxiv, 134, ♀, full ins. col. (1901): Giles, Jour. Trop. Med. VII, 367: *id.*, Handbk., etc., 2nd ed., 381: Brun., Rec. Ind. Mus. I, 329; IV, 445.
Balighai, near Puri, Orissa, 24-x-08 [*Annandale*]
Type of *apicalis* in Indian Museum, of *crassipes* in British Museum. Erroneously identified as "*crassipes*, Wulp" it is recorded from Thayetmo, Upper Burma, viii [*Watson*] and from Pampanga, Philippine Is.

moultoni Edw., Bull. Ent. Res. V, 125, ♂ ♀ (1914—15).
Kuching, Sarawak, 19-ii—6-iii-1914 [*Moulton*]; Jugra, 15-ix-1904 [*Leicester*]. *Types* in British Museum.

brevitibia, *id.*, *loc. cit.*, 125, ♀ (1914—15); VII, 204, ♂.
Tabuan Swamp, Kuching, Sarawak, 25—26-ii-1914 [*Moulton*]. *Type* in British Museum.

hybridus, *id.*, Bull. Ent. Res. V, 126, ♂ ♀ (1904—15).
Kuching, Sarawak, ♂ ♀ [*Moulton*]. *Types* in British Museum.

conjungens, *id.*, *loc. cit.*, 126, ♂ ♀ (1914—15).
Kuching, 25-ii—5-iii-1914 [*Moulton*]. *Types* in British Museum.

confusus, *id.*, *loc. cit.*, 283, ♂ ♀ (1914—15).
Kuching, Sarawak [*Moulton. Hewitt, ? Lewis*]. *Types* in British Museum.

kuchingensis, *id.*, *loc. cit.*, 283, ♂ ♀ (1914—15).
Kuching environs, Sarawak, 24 and 27-vii-14 [*Moulton*]. *Type* in British Museum.

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[1] Edwards says (Bull. Ent. Res. V, 283) that *jugraensis* is not a synonym of *joloensis* as he at first supposed, adding "specimens of the latter represented a colour variation of *obturbans*."

breinli Taylor, Tr. Ent. So., 186 (*Neosquamomyia*), (1914).
Papua.

durhami Edw., Bull. Ent. Res. VII, 206, ♂ ♀ (1916—17).
Bukit Kutu, Fed. Malay States, 3300 ft., 11-v-93; *type* ♂ ♀ bred from larvae in tub near bungalow; 17-v-03 [*Leicester*], 20-ii-03 [*Durham*]. *Types* in British Museum.

maiae, *id.*, *loc. cit.*, 208, ♂ ♀ (1916—17).
Gombak Rd., Kuala Lumpur, 29-ii-04, 5 and 12-xii-03 [*Leicester*]; Pahang Rd., jungle, 6 miles from Kuala Lumpur, 15-v-04 (*type* ♂).

Banksinella, Theob.

Monog. Culic. IV, 468 (1907).
Brun., Rec. Ind. Mus. IV, 477 (*Banksiella*, *lapsus*); X, 56: Theob., Monog. Culic. V, 402, tab. spp.
GENOTYPE, *Culex luteolateralis* Theob., by original designation.

luteolateralis Theob., Monog. Culic. II, 71, ♂ ♀, pl. xxvii, 108, ♀, full ins. col. (*Culex*), (1901).
Banksinella luteolateralis, Theob., Monog. Culic. IV, 469, ♀: Brun., Rec. Ind. Mus. IV, 477 (*Banksiella*, *lapsus*): Edw., Bull. Ent. Res. II, 245; III, 6.
Culex luteolateralis, Giles, Handbk., etc., 2nd ed., 448, ♂ ♀: Blanch., Moust., 278, ♂ ♀: Leices., Culic. Malaya, 160, ♂ ♀: Brun., Rec. Ind. Mus. I, 349
Taeniorhynchus lineatopennis, Ludl., Can. Ent. XXXVII, 133 (1905). Theob., Monog. Culic. IV, 489, ♀: Brun., Rec. Ind. Mus. IV, 479.
Sylhet, 23-xi-04, 5-x-14 [*Hall*]; Kuala Lumpur [*Leicester*]; Perak [*Wray*]; Pampanga, Philippine Is. [*Whitmore*]; Manila [*Banks*]; Luzon: Bayembang (Pangasinan, Philippine Is.), ix [*Chamberlain*]. Occurs also in Durban and Mashonaland.
Type of *luteolateralis* in British Museum; of *lineatopennis* in Army Medical Museum, Washington.
B. chrysothorax, Theob., was at first thought to be the ♂ of *luteolateralis*, but Edwards notes (Bull. Ent. Res. IV, 47) that it is the ♂ of *taeniarostris*, an African species.

Stegomyia, Theob.

Howard's "Mosquitoes, etc." 233 (Jan. 1, 1901).
Theob., Monog. Culic. I, 285, tab. spp.; 284, map of distribution; IV, 170, 171, list and tab. spp.; V, 151, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 18: Giles, Handbk., etc., 2nd ed., 368; 369, tab. spp.: Blanch., Moust., 247, fig. 194, larva; 248, tab. spp.: Brun., Rec. Ind. Mus. I,

328; IV, 443: Leices., Culic. Malaya, 81, tab. Malay spp.: Alcock, Ent. Med. Off., 100: Edw., Bull. Ent. Res. VII, 203.
GENOTYPE, *Culex fasciatus* F., as *calopus*, Mg.

Scutomvia, Theob., Entom. XXXVII, 77 (1904).
Theob., Monog. Culic. IV, 196; V, 199, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 19: Leices., Culic. Malaya, 105: Brun., Rec. Ind. Mus. I, 336; IV, 452; X, 71.
GENOTYPE, *Culex sugens* Wied., by my own designation.

Quasistegomyia, Theob., 2nd Rep. Gord. Coll. Wellcome Laborat. 69 (1916).
Theob., Monog. Culic. IV, 165; V, 132, tab. spp.: Brun., Rec. Ind. Mus. IV, 443; X, 70.
GENOTYPE, *Q. unilineata* Theob., sp. nov., by original designation.

Gymnometopa, Coq., Proc. Ent. Soc. Wash. VII, 183 (1906).
GENOTYPE, *Stegomyia mediovittata* Coq., by original designation.

Kingia, Theob., Monog. Culic. V, 135 (1910).
Brun., Rec. Ind. Mus. X, 63.
GENOTYPE, *Stegomyia luteocephala* Newstead, by original designation.

fasciata F., Syst. Antl., 36 (*Culex*), (1805).

Culex fasciatus, Auctt. var.

Stegomyia fasciata, Theob., Monog. Culic. I, 289, ♂ ♀; figs. 86—89 var. chars.; map of distribution, p. 292; pl. xiii, 49, ♂, 50, ♀ both full ins. col.; pl. B, wing scales: Theob., Gen. Ins., Fasc. 26, pl. i, ii, ♀, full ins. col: Giles, Handbk., etc., 2nd ed., 372; pl. xiv, 2, venation, 3, thorax: Leices., Culic. Malaya, 85, ♂ ♀: Brun., Rec. Ind. Mus. I, 330 and IV, 446, copious notes.

Culex calopus, Meig., Syst. Besch. I, 3 (1818): R. Desv., Ess. Culic. 407 (1827): Giles, Handbk., etc., 237.

Stegomyia calopus, Blanch., Moust., 249, ♂ ♀; fig. 196, ♂, 195, ♀, 197—201, var. chars.: Ludl., Mosq. Phil. Is. 33.

Aedes calopus, Howard, Dyar and Knab, Mosq. N. Amer. IV, 824.

Culex taeniatus, Wied., Auss. Zweifl. I, 10, ♂ ♀ (1828).

C. konoupi, Brullé, Exped. Morea. Zool. III, 289, pl. xlvi, 1 (1832).

C. mosquito, R. Desv., Ess. Culic. 407 (1827): Arrib., Revist. La Plata, 60 (1891).

C. viridifrons, Walk., List Dipt. Brit. Mus. I, 3, ♀ (1848)

C. formosus, *id.*, *loc. cit.*, I, 4, ♀ (1848).

C. inexorabilis, *id.*, *loc. cit.*, I, 4, ♀ (1848).

C. excitans, *id.*, *loc. cit.*, I, 4, ♀ (1848).

C. exagitans, *id.*, Ins. Saund. Dipt. pt. 5., 430, ♀ (1856).

C. impatabilis, *id.*, Proc. Linn. Soc. Lond. IV, 91, ♂ (1860). Giles, Handbk., etc., 255.

C. toxorhynchus, Macq., Dipt. Exot. I, 25 (1838).

C. annulitarsis, *id.*, *loc. cit.*, Supp. I, 136, ♀ 1838).

C. bancroftii, Skuse, Proc. Linn. Soc. N.S. Wales III, 1740 (1886).
C. elegans, Ficalbi, Bull. Soc. Ent. Ital., 251 (1896).
C. rossii, Giles, Jour. Trop. Med. 64 (1899).
C. luciensis, Theob., Monog. Culic. I, 297, ♂ ♀; pl. xiii, 50 (only the separate figure of a leg), (1901).
C. queenslandensis, *id.*, *loc. cit.*, I, 297, ♀ (1901).
Subspecies **persistans** Banks, Phil. Jour. Sci. I, 996 (1906), Brun. Rec. Ind. Mus. I, 331.

The references to this species as *Stegomyia fasciata* are so numerous and so well known that it is unnecessary to list them all here.[1] The absolute identity of *fasciata* with *calopus*, Mg, is not proved, and as the description of Villiers' *Culex fasciatus* is quite unintelligible and the type non-existent no possible gain is obtained by endeavouring to alter this mosquito's well-known name. The Kertesz Catalogue does not mention Villiers' species, which, moreover, may not even have been a *Culex* at all. Messrs. Howard, Dyar and Knab in their monumental work on the North American Mosquitoes actually seriously propose to change the name to *argenteus*, Poiret, Jour. de Physique xxx, 245 (1787). *S. fasciata* is the sole carrier of yellow fever.

variegata Dol., Nat. Tijd. Ned. Ind. XVII, 77 (*Culex*), (1858).
Stegomyia variegata, Edw., Bull. Ent. Res. VII, 209.
Culex scutellaris, Walk., Proc. Linn. Soc. Lond. III, 77 (1859).
Culex zonatipes, Walk., Proc. Linn. Soc. Lond. V, 229 (1861). Giles, Handbk., etc., 287.
Stegomyia pseudoscutellaris, Theob., Entom. XLIII, 156 (1910).

Amboina, Aru, Papua, New Caledonia, Christmas Is., the Solomon Is., Samarai Is. and the Fiji Is.

In Edwards' latest opinion the true *Culex scutellaris* of Walker is not the common oriental species generally known as such, but is identical with the *zonatipes* of Walker, and the *pseudoscutellaris* of Theob. It has not, however, been possible for him to examine Doleschall's type of *C. variegatus*, and the identity must be received with some caution. I have already accepted his previous synonymy of the generally accepted " *scutellaris*, Walk." with *albopicta*, Skuse. *Type* of *variegata*, location unknown; of *scutellaris*, Walk., *zonatipes*, Walk., and *pseudoscutellaris*, Theob., in British Museum.

albopicta Skuse, Ind. Mus. Notes III, 20 (*Culex*), (1895).
Culex albopictus, Giles, Handbk., etc., 228.
Stegomyia albopicta, Edw., Bull. Ent. Res. VII, 209.
Stegomyia albopicta, Theob., Monog. Culic. I, 298: Brun., Rec. Ind. Mus. I, 334.
nec *Stegomyia scutellaris*, Walk., vera.
Stegomyia scutellaris, Theob. nec Walk., Monog. Culic. I, 298, ♂ ♀, fig. 91, ♂ claws; pl. xiv, 53, ♀ (full ins. col.), (1901).

[1] Howard, Dyar and Knab give nearly 150 references.

Id., *id.*, Giles, Handbk., etc., 2nd ed., 374, ♀, pl. xiv, 4, venation, 5, head, thorax, ♂: Blanch., Moust. 257, ♂: Leices., Culic. Malaya, 86, ♂ ♀: Brun., Rec. Ind. Mus. I. 333; IV, 448, notes.

Culex scutellaris, Giles, Handbk., etc.. 224.

Culex notoscriptus, Skuse, Proc. Linn. Soc. N.S. Wales, III, 1738 (1889).

Stegomyia notoscripta, Theob., Monog. Culic. I, 286, ♂ ♀; fig. 84, wing ♀; 85, wing scales; III, 145: Blanch., Moust., 257, ♂ ♀; Brun., Rec. Ind. Mus. I, 336; IV, 452.

Scutomyia notoscripta, Theob., Monog. Culic. IV, 198; V, 200: Giles, Handbk., etc., 225.

? *Culex variegatus*, Giles, Handbk., etc., 282.

Subspecies **samarensis** Ludl., Jour. N. Yk. Ent. Soc. XI, 138 (1903).

Ludl., Can. Ent. XXXVI, 71: Banks, Phil. Jour. Sci. I, 985: Theob., Monog. Culic. IV, 179: Brun., Rec. Ind. Mus. I, 333; IV, 449: Ludl., Psyche XVIII, 126 (specific rank claimed).

Scutomyia notoscripta, Skuse, subspecies *samarensis*, Theob., Monog. Culic. V, 200: Brun., Rec. Ind. Mus. I, 336; IV, 452.[1]

Culex crassipes Wulp, Mid-Sum. Dipt., 9, pl. i, 4, head (*Culex*), (1892).

nec S. *crassipes*, Theob., *et auctt.*

A very common species throughout the East, almost universally known as *scutellaris*, Walk.[2], occurring in India throughout the year except perhaps December to February. Sylhet, Lushai Hills, Manipur, Colombo, Straits (commonly distributed), Celebes, Aru, Amboina, Ceram, Papua, Borneo, Sumatra, Java, Assam, Siam (abundant), China, Japan and the Philippines. It also occurs in Krakatua, Mauritius, Fiji, the Seychelles, Christmas Is., Pitcairn Is., Honolulu.

Crassipes, Wulp, was described from Soeroelangoen, Sumatra. *Type* of *samarensis* in the Army Medical Museum, Washington.

microptera Giles, Jour. Bomb. Nat. Hist Soc. XIII, 609 (*Culex micropterus*, provis. descr.): Giles in Theob. Monog. Culic. II, 281, ♂ ♀ (*Wyeomyia ? micropterus*), (1901).

Stegomyia microptera, Giles, Handbk., etc., 2nd ed., 380, ♂ ♀, pl. xiv, 24, head, thorax, 25, head, 26, venation: Theob., Monog. Culic. III, 147, note: Blanch, Moust., 263: Brun., Rec. Ind. Mus. I, 332; IV, 447, notes.

Allahabad, Lucknow, Jhansi. *Type* "appears to be lost." (Theob., Monog. V, 607 App.).

albolineata (I), Giles, Jour. Bomb. Nat. Hist. Soc. XIII, 609 provis descr. (*Culex*), (1901).

[1] For fuller date, *v.* Brun., Rec. Ind. Mus. I, 333; IV, 449.
[2] Entered by error, twice in my Cat. Supp. 149 and 152

Brun., Rec. Ind. Mus. I, 336.
Shahjahanpur, N.W. India, 20-x-1900. *Type*, a unique ♀.

sexlineata Theob., Monog. Culic. I, 308, ♀, fig. 94, var. chars. (1901):
Giles, Jour. Trop. Med. VII, 367: *id.*, Handbk., etc., 2nd ed., 377: Brun., Rec. Ind. Mus. I, 334; IV, 449.
Angeles, Pampanga. *Type* in British Museum.
Described originally from a unique perfect ♀ taken at Agua Santa in Trinidad. The identity of the species seems established. Theobald (Monog. V, 219) has doubted it.

periskelata Giles, Handbk., etc., 2nd ed., 371, ♂, pl. xiv, 22, head ♂ (1902).
Theob., Monog. Culic. III, 145, ♂: Blanch., Moust., 264: Brun., Rec. Ind. Mus. I, 322; IV, 448, notes.
Shahjahanpur (N.W. India). *Type* probably lost, not in the British Museum. Apparently an uncertain species.

punctolateralis Theob., Entom. XXXVI, 156, ♂ ♀, (1903).
Giles, Jour. Trop. Med. VII, 367.
Pampanga [*Whitmore*]. Also occurs in Queensland, i [*Dr. Bancroft*]. *Type* in British Museum.

amesii Ludl., Jour. N. Yk. Ent. Soc. XI, 139 (*S. nivea, amesii*), (1903).
Theob., Monog. Culic. IV, 191 (copies Ludl.'s descr.): Brun., Rec. Ind. Mus. I, 329.
Skusea amesii, Edw., Bull. Ent. Res. VII, 213.
Stegomyia fusca, Leices., Culic. Malaya, 92, ♂ ♀ (1908).
Id., *id.*, Brun., Rec. Ind. Mus. IV, 447.
Oras, Samar, Tacloban, Leyte, Twin Peaks, Banquet, Luzon (all Philippine Is.). Port Swettenham.
Type of *amesii* in Army Medical Museum, Washington; of *fusca* in Leicester collection. Edwards would remove this species to his subgenus *Skusea* of *Aedes*.

albolineata (II). Theob., Entom. XXXVII, 77, ♀. (1904).
Theob., Monog. Culic. IV, 197, ♀: Leices., Culic. Malaya, 105, ♂ ♀: Brun., Rec. Ind. Mus. I, 336; IV, 452.
Kuala Lumpur, vi [*Leicester*]. *Type* in British Museum.

desmotes Giles, Jour. Trop. Med. VII, 367, ♀ (1904).
Brun., Rec. Ind. Mus. IV, 445: Edwards, Bull. Ent. Res. IV, 225.
Stegomyia gracilis, Leices., Culic. Malaya, 81, ♂ ♀ (1908): Brun., Rec. Ind Mus. IV, 447.
Stegomyia albipes, Theob., Rec. Ind. Mus. IV, 11, ♀ (1910): *id.*, Monog. Culic. V, 169 ♀.
Typical form from the Philippines, *gracilis* from the Malay Peninsula, *albipes* from Maddathorai, Travancore, 17-xi-08 [*Annandale*]. *Type* (*desmotes*) in British Museum, damaged; of *gracilis* in Leicester collection, of *albipes*, a unique specimen, in Indian Museum.

leucomeres Giles, Jour. Trop. Med. VII, 367, ♀ (1904).
Brun., Rec. Ind. Mus. IV, 447.
Philippines. *Type* in British Museum.

striocrura Giles, Jour. Trop. Med. VII, 367 (1904).
Brun., Rec. Ind Mus. 449.
Angeles, Pampanga. *Type*, location uncertain, not in British Museum A doubtful species.

trilineata Leices. in Theob., Entom. XXXVII, 163, ♂ ♀ (*Hulecoetomyia*), (1904).
Stegomyia trilineata, Edwards, Bull. Ent. Res. IV, 226
Hulecoetomyia trilineata, Theob., Monog. Culic. IV, 220, ♂ ♀ (1907). Leices., Culic. Malaya, 107, ♂ ♀: Brun., Rec. Ind. Mus. IV, 455.
Howardina chrysolineata, Theob., Monog. Culic. IV, 218, ♀; pl. i, wing scales, ♀ (1907).
Kurseong, 3-vii-08 [*Annandale*]; Kuala Lumpur, iv, v, vii, x, xii; Peradeniya [*Green*]; Bukit Kutu, v; Ulu Gombok [both Malaysia, and *t. Leicester*].
Types of *trilineata* and *chrysolineata* in British Museum.

thomsoni Theob., Monog. Culic. IV, 174 (1907).[1]
Id., Gen. Ins., Fasc. 26, 18 (1905): Edw., Bull. Ent. Res. VII, 210, fig. 5*d*, ♂ genit.
N.W. India; bred at Pusa [*Howlett*]. *Type* in British Museum.

w-alba Theob., Ann. Mus. Hung. III, 74, ♀, fig. 4, head, thorax, femur (1905).
Id., Monog. Culic IV, 180, ♀, fig. 51, head, thorax, femur: Brun., Rec. Ind. Mus. I, 335: Edwards, Bull. Ent. Res. IV, 225.
Matheran, Bombay Presidency, 800 metres [*Biro*].
S. imitator, Leices., Culic. Malaya, 89, ♀ (1908): Brun., Rec. Ind. Mus. IV, 447.
S. minutissima, Theob., Rec. Ind. Mus. IV, 9, ♀; V, 168, ♀; fig. 61, wing (1910): Brun., Rec. Ind. Mus. IV, 448.
Matheran, Bombay Presidency, 800 metres [*Biro*] (*w-alba*); Kuala Lumpur [*t. Leices.*, *imitator*]; Sukna, 1-vii-08 [*t. Theob.*, *minutissima*].
Type (*w-alba*) in Hungarian Museum, a unique specimen; of *imitator* in Leicester collection; of *minutissima* in Indian Museum.

annulirostris Theob., Jour. Bomb Nat. Hist. Soc. XVI, 239, ♀ (1905).
Id., Monog. Culic. IV, 173.
Peradeniya, i, 1902.
Type in British Museum, a unique specimen.

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[1] The Genera Insectorum "description" cannot be considered as such, being confined to five lines.

mediopunctata Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 240, ♀ (1905).
Theob., Monog. Culic. IV, 187, ♀.
Peradeniya, xi [*Green*]. *Type*, a unique specimen, in British Museum.

gardneri Ludl., Can. Ent. XXXVII, 99, ♂ ♀ (1905).
Quasistegomyia gardneri, Brun., Rec. Ind. Mus. IV, 443.
Pseudostegomyia gardneri, Ludl., Mosq. Phil. Is., 10 (*lapsus* for *Quasistegomyia*).
Bulaco, viii [*Gardner*]; Pampanga [*Whitmore*].
Type in Army Medical Museum, Washington.

aurostriata Banks, Phil. Jour. Sci. I, 995, ♀ (1906).
Theob., Monog. Culic. V, 181: Brun., Rec. Ind. Mus. IV, 445.
Mt. Siya Siya, Canlaon Volcano, Negros Is., 760 metres, 24-vi-06.
Type in Entom. Coll., No. 6082, Bureau of Science, Manila.

argenteomaculata Theob., Monog. Culic. IV, 184, ♀ (1907).
Brun., Rec. Ind. Mus. IV, 444.
Narcondam Island (Bay of Bengal), 80 miles from Andamans and Nicobars [*Rogers*].
Type in British Museum.

tripunctata Theob., Rec. Ind. Mus. II, 288, ♀ (1901).
Id., loc. cit., IV, pl. i, wing; pl. iii, wing scales; V, 182, fig. 68, wing: Brun., Rec. Ind. Mus. IV, 450.
Lushai Hills, Assam, 6-vi-04 [*Macleod*].
Type in Indian Museum.

albolateralis Theob., Rec. Ind. Mus. II, 289, ♀ (1908).
Id., loc., cit., IV, pl. i, wing; pl. iii, wing scales: *id.*, Monog. Culic. V, 179, fig. 67, wing: Brun., Rec. Ind. Mus. IV, 444.
Sylhet, ix [*Hall*]; Lungleh, Lushai Hills, vii.
Type in Indian Museum.

assamensis Theob., Rec. Ind. Mus. II, 290, ♀ (1908).
Id., Monog. Culic. V, 174, ♀: Brun., Rec. Ind. Mus. IV, 445.
Sylhet, 13-iv-05 [*Hall*]; Pallode, Travancore, 15-xi-08 [*Annandale*]. *Type* in Indian Museum.

perplexa Leices., Culic. Malaya, 83, ♂ ♀ (*Culex*), (1908).
Brun., Rec. Ind. Mus. IV, 448.
Kuala Lumpur, v, x, xi. Leicester says possibly a hybrid. *Type* in Leicester collection.

dissimilis Leices., Culic. Malaya, 91, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 445.
Ampang (Straits). *Type* in Leicester collection.

annandalei Theob., Rec. Ind. Mus. IV, 10 (1910).
Brun., Rec. Ind. Mus. IV, 444.
Kingia annandalei, Theob., Monog. Culic. V, 139: Brun., Rec. Ind. Mus. IV, 443.
Sukna, vii-08 [*Annandale*]. *Type*, unique, in Ind. Mus.

nigritia Ludl., Can. Ent. XLII, 194 (1910).

Philippines. *Type* in Army Medical Museum, Washington.

gregoryi Ludl., Psyche XVIII, 128, ♀ (1911).

Parang, Mindanao, i.

Type, presumably in Army Medical Museum, Washington.

quasinigritia Ludl., Psyche XVIII, 129 (1911).

Turucan, Mindanao, Philippine Is, xi. *Type*, unique, presumably in Army Medical Museum, Washington.

Howardina, Theob.

Monog. Culic. III, 287, pl. xv, wing scales (1903).
Theob., *loc. cit.*, IV, 214; V, 200, tab. spp.: Gen. Ins., Fasc. 26, 21: Blanch., Moust., 415: Brun., Rec. Ind. Mus. I, 338; IV, 456; X, 62.
GENOTYPE, *Culex walkeri*, Theob., by Dyar's designation (Proc. Ent. So. Wash. VII, 49).

greenii Theob., Monog. Culic. III, 289, ♀; fig. 160 (p. 289), head, fig. 161, wing (1903).

Blanch., Moust., 416

Peradeniya, ii [*Green*]. *Type*, unique, in British Museum.

Of the three recorded oriental species, Edwards sinks *H. chrysolineata* as synonymous with *Stegomyia 3-lineata*, and *H. himalayana* as synonymous with *Ochlerotatus pulchriventer*, leaving only *H. greenii* unaccounted for. This species is, therefore, retained here under *Howardina* until disposed of.

Grabhamia, Theob.

Monog., Culic. III, 243 (1903).
Theob., *loc. cit.*, IV, 284, list. spp.: *id.*, Gen. Ins., Fasc. 26, 23: Blanch., Moust., 396: Brun., Rec. Ind. Mus. I, 341; IV, 461; X, 60.
GENOTYPE, *Culex jamaciensis* Theob., by original designation.

Ceratocystia, Dyar and Knab, Jour. N. Yk. Ent. Soc. XIV, 183 (1906).
GENOTYPE, *Culex discolor* Coq., by original designation.

Feltidia, Dyar, Proc. Ent. Soc. Wash. VII, No. 1, 47 (1905).
GENOTYPE, *Culex jamaciensis* Theob., by original designation.

sollicitans Walk., Ins. Saund. Dipt., pt. 5, 427 (*Culex*), (1856).

Culex sollicitans, Theob., Monog. Culic. I, 368, ♀; pl. xvi, 64, ♀, full ins. col.

Grabhamia sollicitans, Theob., Monog. Culic. III, 248; fig. 130, wing ♀; IV, 291, life-history notes, fig. 97, 98, larval chars.: Blanch., Moust., 295, ♀; fig. 212: Brun., Rec. Ind. Mus. I, 341; IV, 461, notes.

Formosa.

spencerii Theob., Monog. Culic. II, 99, ♀; pl. xxvi, 104, full ins. col. (*Culex*), (1901).

Culex spenceri, Theob., *loc. cit.*, II, fig. 198, var. chars.: Giles, Handbk., etc., 2nd ed., 431, ♀.

Grabhamia spenceri, Theob., Monog. Culic. III, 250: Brun., Rec. Ind. Mus. I, 341.

Recorded by Theobald from the Philippines, but Banks (Phil. Jour. Sci. I, 986) doubts the identification. *Type* in British Museum.

bitaeniorhynchus Giles, Jour. Bomb. Nat. Hist. Soc. XIII, 607 (provis. descr.) (*Culex*), (1901).

Edwards, Bull. Ent. Res. IV, 231.

Culex bitaeniorhynchus, Giles, Entom. XXXIV, 196, ♂ (1901).

Culex infula, Theob., Monog. Culic. I, 370, ♀ (1901).

Giles, Handbk., 2nd ed., 407, ♀ (*infulus*): Blanch., Moust., 298, ♀: Leices., Culic. Malaya, 146 (Theob.'s descr. copied): Brun., Rec. Ind. Mus. I, 348.

Taeniorhynchus ager, Giles, in Theob., Monog. Culic. II, 199, ♂; fig. 248, abdomen, palpus, proboscis, wing scales.

Giles, Handbk., 2nd ed., 365, ♂ ♀: Blanch., Moust., 385, ♂ ♀: Leices., Culic Malaya, 168, ♂ ♀: Brun., Rec. Ind. Mus. I, 357; IV, 478.

Taeniorhynchus tenax, Theob., Monog. Culic. II, 198, ♀; pl. xvii, 65, full ins. col. (1901).

Theob., *loc. cit*, III, 259, fig. 236, wing: Giles, Handbk., 2nd ed., 365, ♀: Blanch., Moust., 386, ♀: Leices., Culic. Malaya, 167, ♀: Brun, Rec. Ind. Mus. I, 358; IV, 480.

Taeniorhynchus tenax, var. *ocellatus*, Theob., Monog. Culic. IV, 488, ♀ (1907).

Grabhamia ambigua, *id.*, *loc. cit.*, III, 248, ♂ (1903).

Grabhamia taeniarostris, *id.*, *loc. cit.*, IV, 299, ♀ (1907).

Oculeomyia sarawaki, *id.*, *loc. cit.*, IV, 515, ♀; fig. 236, 237; pl. vi, wing scales, ♀ (1907).

? *Taeniorhynchus domesticus*, Leices., Culic. Malaya 169, ♂ ♀ (1908): Brun., Rec. Ind. Mus. IV, 479.

? *Culicelsa abdominalis*, Taylor, Report Austral. Inst. Trop. Med. for 1911, p. 53 (1913).

Sylhet i to vi [*Hall*]; Calcutta, 2-ii-08 [*Annandale*]; Balighai, near Puri, 26-x-08, and 23-x-08 at light [both *Annandale*]; Shahjahanpur (Unit. Prov. India), [*Giles*]; Madras [*Giles* and *Cornwall*]; Pallode, 14-xi-08; Quilon vii [*James*]; Kerumadi, S. end of Vembanaad Lake, Travancore, 6-xi-08 [*Annandale*]; Peradeniya, i [*Green*]; Ceylon [*Giles*]; Mandalay, 12-ii-08 [*Annandale*]; Manipur, viii [*Gourlay*]; Perak [*Wray*, *Wright*]; Taiping; Sarawak [*Barker*]; Philippines [*t. Ludlow*].

Types of *tenax*, *infula*, *ambigua*, *taeniarostris* and *sarawaki* in British Museum; of *domesticus* in Leicester collection.

Edwards includes *domesticus*, Leices., temporarily as a variety, but notes that should it prove to be of specific rank it must be renamed, owing to the existence of *C. domesticus*, Germ.

deniedmanni Ludl., Can. Ent. XXXVI, 234, ♀ (*Grabhamia*), (1904).
Philippines.

epidesmus Theob., Rec. Ind. Mus. IV, 22, ♀ (*Taeniorhynchus*), (1910).
Id., Monog. Culic. V, 429, ♀ (*Taeniorhynchus*).
Culex epidesmus, Edw., Bull. Ent., Res. IV, 231.
Taeniorhynchus luteoabdominalis, Theob., Rec. Ind. Mus. IV, 423, ♀ (1910): *id.*, Monog. Culic. V, 423: Brun., Rec. Ind. Mus. IV, 479.
Grabhamia ochracea, Theob., Jour. Econ. Biol. I, 25 ♀ (1905).
Theob., Monog. Culic. IV, 300, ♀.
Bhogaon, 2-x-08; Katihar, 5-x-08 [both Bengal and *Paiva*]; India [*Christophers*].
Types of *epidesmus* and *luteoabdominalis* in Indian Museum; of *ochracea* in British Museum.

Ochlerotatus, Arrib.

Rev. Mus. La Plata II, 143 (1891).
Brun., Rec. Ind. Mus. X, 67, note *re* genotype.
Edwards, Bull. Ent. Res. II, 246; VII, 203.
GENOTYPE, *Culex albifasciatus* Macq.[1]

Finlaya, Theob., Monog. Culic. III, 281 (1903).
Theob., *loc. cit.*, IV, 520; Gen. Ins., Fasc. 26,32: Blanch., Moust., 415, 630.
Brun., Rec. Ind. Mus. I, 360; IV, 485; X, 60.
GENOTYPE, *F. poicilia*, Theob., by my own designation (1914).

Aedimorphus, Theob., Monog. Culic. III, 290 (1903).
GENOTYPE, *Uranotaenia domestica*, Theob., by original designation.

Danielsia, Theob., Entom. XXXVII, 78 (1904).
Theob., Gen. Ins., Fasc. 26, 21: *id.*, Monog. Culic. IV, 240: Leices., Culic. Malay., 117.
GENOTYPE, *D. albotaeniata*, *id.*, *loc. cit.*, sp. nov.

Culicelsa, Felt, N. Yk. State Mus. Bull. 79, Ent. 22. App., p. 391 (1904).
GENOTYPE, *Culex taeniorhynchus* W., by original designation.

Culicada, Felt., *loc. cit.*, p. 391*b* (1904).
Theob., Jour. Econ. Biol. I, 26 (1905): *id.*, Monog. Culic. IV, 318 and p. 10; V, 294, tab. spp.: Brun., Rec. Ind. Mus. IV, 461; X, 58.
GENOTYPE, *Culex canadensis* Theob., by original designation.

Ecculex, Felt, *loc. cit.*, p. 391*c* (1904).
GENOTYPE, *Culex sylvestris* Theob., by original designation.

[1] See Brun., Rec. Ind Mus. X, 67. Edwards agrees to *albifasciatus*, Macq., as the type species, though Coquillett has suggested *confirmatus*, Arrib.

Protoculex, Felt, *loc. cit.*, p. 391*d* (1904).
GENOTYPE, *Culex serratus* Theob., by original designation.
Pseudoculex, Dyar, Proc. Ent. Soc. Wash. VII, 45 (1905).
GENOTYPE, *Culex aurifer* Coq.
Chrysoconops, Goeldi, Os. Mosq. do Para, 114 (1905).
Theob., Monog. Culic. IV, 491; V, 433, tab. spp.: Brun. IV, 480; X, 157.
GENOTYPE, unknown to present author.
Reedomyia, Ludl., Can. Ent. XXXVII, 94 (1905).
Theob., Monog. Culic. IV, 257, ♂ ♀, list. and tab. spp.; V, 252: Brun., Rec. Ind. Mus. I, 362; IV, 486, note; X, 70.
GENOTYPE, *R. pampangensis* Ludl., by original designation.
Lepidotomyia I, Theob., Ann. Mus. Hung. III, 80 (1905).
nec *Lepidotomyia* II, Theob., Gen. Ins., Fasc. 26, 22 (1905).
GENOTYPE, *L. alboscutellata*, *id.*, *loc. cit.*, sp. nov.
Pecomyia, Theob., Jour. Econ. Biol. I, No. 1, 24 (1905).
Theob., Monog. Culic. IV, 265.
GENOTYPE, *P. maculata* Theob., by original designation.
Pseudograbhamia Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 243 (1905).
Theob., Monog. Culic. IV, 314: Brun, Rec. Ind. Mus. IV, 460; X, 69.
GENOTYPE, *P. maculata* Theob., by original designation.
Phagomyia, Theob., Gen. Ins., Fasc. 26, 21 (1905).
Theob., Monog. Culic. IV, 223; V, 224, tab. spp.: Brun., Rec. Ind. Mus. I, 338; IV, 456; X, 68.
GENOTYPE, *Stegomyia gubernatoris* Giles.[1]
Polyleptiomyia, Theob., Gen. Ins., Fasc. 26, 21 (1905).
Theob. Monog. Culic. IV, 223.
GENOTYPE, *P. albocephala* Theob., by original designation.
Lepidotomyia II,[2] Theob., Gen. Ins., Fasc. 26, 22 (1905).
Theob., Monog. Culic. IV, 249; V, 249: Brun., Rec. Ind. Mus. IV, 458, note on names; X, refs. to names.
nec *Lepidotomyia* I, Theob., Ann. Mus. Hung. III, 80; which =*Reedomyia*, Ludl.
GENOTYPE, *L. magna* Theob., by original designation.
Lepidoplatys, Coq., Science XXIII, 314 (1906).
GENOTYPE, *Culex squamiger* Coq., by original designation.
Pseudoskusea, Theob., Monog. Culic. IV, 192 (1907).
GENOTYPE, *Skusea multiplex* Theob., by my own designation, 1914.
Pseudohowardina, Theob., Monog. Culic. IV, 223 (1907).
GENOTYPE, *Culex trivittatus* Coq., by original designation.
Neomacleaya, Theob., Monog. Culic. IV, 238 (1907).

[1] Theobald does not definitely select this species, but he places it first out of three species on three separate occasions, the third species being admittedly doubtfully congeneric.

[2] Theobald's first genus of the name of *Lepidotomyia* was admittedly synonymous with *Reedomyia*, but his second *Lepidotomyia* was (in his view) a valid genus.

Brun., Rec. Ind. Mus. IV, 458.
GENOTYPE, *N. indica, id., loc. cit.*, sp. nov.
Protomacleaya, Theob., Monog. Culic. IV, 253 (1907).
GENOTYPE, *Culex triseriatus* Say.
Duttonia, Newstead, Ann. Trop. Med. Parasit. I, 17 (1907).
GENOTYPE, *D. tarsalis*, Newstead by original designation.
Mimeteculex, Theob., 3rd Rep. Wellcome Res. Labor. Gordon College, 258 (1908).
Theob., Monog. Culic. V, 408.
GENOTYPE, *M. kingii* Theob., by original designation.
Geitonomyia, Leices., Culic. Malaya, 134 (1908).
GENOTYPE, *Culex caecus* Theob., by original designation.
Myxosquamus, Theob., Monog. Culic. V, 225 (1910).
GENOTYPE, *M. confusus* Theob., by original designation.
Neopecomyia, Theob., Monog. Culic. V, 261 (1910).
GENOTYPE, *N. uniannulata* Theob., by original designation.
Stenoscutus, Theob., Monog Culic. V, 263 (1910)
GENOTYPE, *S. africanus* Theob., by original designation.
Bathosomyia, Theob., Monog. Culic. V, 267 (1910).
GENOTYPE, *B. abnormalis* Theob., by original designation.
Pseudocarrollia, Theob., Rec. Ind. Mus. IV, 12 (1910).
Id., Monog Culic. V, 186: Brun., Rec. Ind. Mus. IV, 454; X 69.
GENOTYPE, *P. lophoventralis* Theob., by original designation.
Leslieomyia, Christophers, Paludism, No. 2, 68 (1911).
GENOTYPE, *L. taeniorhynchoides* Christophers, by original designation.
Acartomyia, Theob., Monog. Culic. III, 251 (1903).
GENOTYPE, *A. zammitii* Theob., by original designation.
? *Gilesia*, Theob., Monog. Culic. III, 233 (1903).
? *Gualteria*, Lutz in Bourroul's Mosq. Bras. 49 (? 54) (1904).
Theob., Gen. Ins., Fasc. 26, 21; *id.*, Monog. Culic. IV, 240; Leices., Culic. Malaya, 117.
? *Cacomyia*, Coq., U.S. Dep. Agric. Bull. Tech. Ser. II, 16 (1906).
? *Stegoconops*, Lutz, Imprensa Medica (1906). (? *nom. nud.*)
Peryassu, Os. Culic. do Bras., 34 (1908).
? *Molpemyia*, Theob., Monog. Culic. V, 479 (1910).
? *Andersonia*, Strickland, Entom., 250 (1911).

vexans Mg., Syst. Besch. VI, 241 (*Culex*), (1830).
Ochlerotatus vagans, Edw., Bull. Ent. Res. VII, 218.
Culex articulatus, Rond., Bull. Soc. Ent. It. IV, 70 (1832).
Culex sylvestris, Theob., Monog. Culic. I, 406 (1901).
Culex vagans, id., loc. cit. I, 411 (1901).
Culicada nipponii, id., loc. cit., IV, 337 (1907).
Culicada minuta, id., loc. cit., IV, 338 (1907).
Culex stenoetrus, id., loc. cit., IV, 395 (1907).
Ochlerotatus stenoetrus, Edw., Bull. Ent. Res. IV, 228.
Culicada eruthrosops, Theob., Monog. Culic. V, 299, ♀, fig. 140, wing (1910).

Culex pseudostenoctrus, id., loc. cit., V, 343, fig. 154, wing (1910).
Culex hirsutum, Ludl., Psy. XVIII, 126 (1911).
? *Culex nocturnus*, Theob., Monog. Culic. III, 159 (1903).

A very widely distributed species. India [*Christophers*]; Maskeliya, Ceylon, iv [*Green*]; Hakgala, Ceylon, v, viii-07 [*Green*]; Trincomalee, xi-06. Also found in China, Japan, the Philippines, Borneo, England and other parts of Europe, in Canada and possibly in Fiji.

Edwards finds the male genitalia of specimens from many of these localities agree exactly. He finds three definite varieties, *vexans* (*articulatus, sylvestris*); *stenoetrus* (*minuta*, etc.), and *nipponii* (*vagans*, Theob., nec. Wied.). *Types* of *minuta, stenoctrus, eruthrosops* and *pseudostenoctrus* in British Museum.

imprimens Walk., Proc. Linn. Soc. V, 144, ♀ (*Culex*), (1861).
Edwards, Bull. Ent. Res. IV, 228.
Culex imprimens, Giles, Handb., 262; 2nd ed., 411, ♀ (*imprimiens, lapsus*): Blanch., Moust., 306, ♀: Theob., Gen. Ins., Fasc. 26 (*imprimiens*): Brun., Rec. Ind. Mus. I, 348.
Culicada suknaensis, Theob., Rec. Ind. Mus. VI, 21, ♀ (1910).
Id., Monog. Culic. V, 297, ♀, fig. 139, wing: Brun., Rec. Ind. Mus. IV, 462.
? *Culex auratus*, Leices., Culic. Malaya, 153, ♀: Brun., Rec. Ind. Mus. IV, 467.

Amboina, Sukna, 1—2-vii-08 [*Annandale*]; Malaysia [*t. Leicester*].

Type of *imprimens*, a remnant, in British Museum: of *suknaensis* in Indian Museum.

conopas Frnfld., Verh. zool.-bot. Ges. Wien. XVII, 451 (*Culex*) (1867).
Culex conopas, Giles Handbk., 286.
Taeniorhynchus conopas, Theob., Monog. Culic. II, 202, ♂, fig. 249, wing, wing scales, scutellum; pl. xxiii, 90, ♀, full ins. col.; pl. E, wing scales: Giles, Handbk., 2nd ed., 360, ♂: Blanch., Moust., 387, ♀ (*conopus*): Brun., Rec. Ind. Mus. I, 358: Leices., Culic. Malaya, 166, ♀.
Chrysoconops conopas, Brun., Rec. Ind. Mus. IV, 481.

Selangor, 28-x-99 [*Butler*]; Kuala Lumpur [*Durham*]; Klang [*Leicester*]; Perak [*Wray*]; Dinding, Straits, vi, xii; Formosa, 8-i-1900 and vi [*Ford*]; Philippines [*t. Ludlow*].

Type, location unknown to present author.

kochi Don., Insektenborse XVIII, 38, ♀ (*Culex*), (1901).
Culex kochi, Theob., Monog. Culic. II, 217: Blanch., Moust., 272, ♀.
Finlaya kochi, Theob., Monog. Culic. III, 284: Brun., Rec. Ind. Mus. I, 361.

Papua. *Type*, location unknown to present author.

gubernatoris Giles, Jour. Bomb. Nat. Hist. Soc. XIII, 607 (*Culex*), (provis. descr.), (1901).

Culex gubernatoris, *id.*, Entom. XXXIV, 194: Theob., Monog. Culic. I, 314, ♀, fig. 97, thorax ♀.

Ochlerotatus gubernatoris, Edw., Bull. Ent. Res. IV, 226.

Stegomyia gubernatoris, Giles, Handbk., 2nd ed., 380, ♀: Blanch., Moust., 261, ♀.

Phagomyia gubernatoris, Theob., Gen. Ins., Fasc. 26, 21: Brun., Rec. Ind. Mus. I, 338.

Lepidotomyia (II) *magna*, Theob., Gen. Ins., Fasc. 26, 22 (1905).[1] Theob., Monog. Culic. IV, 250, ♂ ♀.

Allahabad, vii; North India; Bombay, 19-viii-02 [*James*]; Purnea, Bengal, 6-viii-07 [*Paiva*]; Pampanga, Philippine Is. [*Whitmore*].

Types of *gubernatoris* (damaged but recognizable), and *magna* in British Museum; of *lophoventralis*, a unique specimen, in Indian Museum.

As regards the *L. magna* of Theobald it must be remembered that he had two genera named *Lepidotomyia*, the first being synonymous with the previously described *Reedomyia*, Ludl., the second represented solely by *magna*.

pulchriventer Giles, Jour. Bomb. Nat. Hist. Soc. XIII, 608 (*Culex pulchriventer*, provis. descr.), (1901).[2]

Culex pulchriventer, Theob., Monog. Culic. II, 48, ♂ ♀; pl. xxiii; 92, ♀, full ins. col., fig. 170, ♂ ♀, var. chars.; fig. 172, wing, ♂; fig. 171, wing, ♀; fig. 173, larva: Giles, Handbk., 2nd ed., 449, ♂ ♀; pl. xvii, var. chars.: Blanch., Moust., 338, ♂ ♀: Brun., Rec. Ind. Mus. I, 351.

Ochlerotatus pulchriventer, Edw., Bull. Ent. Res. IV, 228.

Howardina himalayana, Giles, Jour. Trop. Med. VII, 384, ♀ (1904): Brun., Rec. Ind. Mus. IV, 456.

Naini Tal, viii.

Types of *pulchriventer* and *himalayana* in British Museum.

caecus Theob., Monog. Culic. I, 413, ♀; fig. 147, head, 148, scutellum and scales; pl. xx, 77, full ins. col. (*Culex*), (1901).

Culex caecus, Theob., *loc. cit.*, IV, 268; fig. 86, wing ♀; pl. i, wing scales, ♀: Giles, Handbk., 2nd ed., 415, ♀: Blanch., Moust., 305, ♀.

Geitonomyia caecus, Leices., Culic. Malaya, 135, ♂ ♀.

Pecomyia caeca, Theob., Monog. Culic. IV, 268; fig. 86, wing ♀; pl. i, wing scales, ♀: Brun., Rec. Ind. Mus. IV, 459.

Selangor, 28-x-99 [*Butler*]; Klang; Ipoh, Perak; Straits [*Durham*]; Philippines [*t. Ludlow*]. *Type* in British Museum.

mediolineatus Theob., Monog. Culic. II, 113 (*Culex*), (1901).

Culex mediolineatus, Giles, Handbk., 2nd ed., 341, ♀. Blanch., Moust, 369, ♀.

Ochlerotatus mediolineatus, Edw., Bull. Ent. Res. IV, 228.

Culex trilineatus, Theob., Monog. Culic. II, 105, ♀ (1901); *loc.*

[1] [2] A "description" of five lines only in each case.

cit., V, 359: Giles, Handbk., 2nd ed., 464, ♀: Blanch., Moust., 330, ♀: Brun., Rec. Ind. Mus. IV, 476.

Types of both *mediolineatus* and *trilineatus* in British Museum.

aurites Theob., Monog. Culic. II, 209, ♀; fig. 253, 254, var. chars.; pl. xxii, 88, ♀, full. ins. col. (*Taeniorhynchus*), (1901).

Taeniorhynchus aurites, Giles, Handbk., 2nd ed., 362, ♀: Brun., Rec. Ind. Mus. I, 357.

Chrysoconops aurites, Brun., Rec. Ind. Mus. IV, 480.

Dindings, Perak [*Wright*]; Kuala Lumpur, 10-xi-02; 25-v-02 [*Durham*]; Philippines [*I. Ludlow*].

Type in British Museum, from Dr. Annett's collection.

pipersalatus Giles in Theob., Monog. Culic. II, 316, ♂ ♀ (*Stegomyia*), (1901).

Stegomyia pipersalata, Giles, Handbk., 2nd ed., 372, ♀ only[1]; pl. xvi, 1 *a*, *b*, venation (given as ♂, Edwards says it is ♀) (1902); V, 607, App. (note as to generic position): Blanch., Moust., 264 (♀ only): Brun., Rec. Ind. Mus. I, 332; IV, 448.

Pseudograbhamia maculata, Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 243, ♂ ♀ (1905): Theob., Monog. Culic. IV, 314, ♂ ♀; fig. 109, wing ♀.

Ochlerotatus pipersalatus, Edw., Bull. Ent. Res. IV, 227.

Jhansi; Gonda, N.W. India; Galgamuwa, Ceylon, viii [*Green*]; Madras town, 30-x-08 [*Hodgart*].

Types of *pipersalatus* and *maculata* in British Museum. Theobald (Monog. I, 316) attributes this species to Giles, and this appears to be the original description, but he adds as a reference "Handbk., 2nd ed., 1901," giving no page, which makes it appear as though the latter work had not appeared at the time. Giles, 2nd ed., is dated 1902, a year later than Theobald's Monograph Vol. I, so the latter reference must stand.

ochraceus Theob., Monog. Culic. III, 263, ♀; fig. 140, scutellum (*Taeniorhynchus*), (1903).

Ochlerotatus ochraceus, Edw., Bull. Ent. Res. II, 250.

Taeniorhyncus ochraceus, Leices., Culic. Malaya, 164.

Taeniorhynchus ochraceus, Brun., Rec. Ind. Mus. I, 358.

Chrysoconops ochraceus, *id.*, *loc.*, *cit.* IV, 481.

Kuala Lumpur [*Durham*]. *Type* in British Museum.

poicilia Theob., Monog. Culic. III, 283, ♀; fig. 156, wing scales (slightly incorrect) (*Finlaya*), (1903).

Finlaya poicilia, Giles, Jour. Trop. Med. VII, 366 (*poialia*, *lapsus*): Theob., Monog. Culic. IV, 520; fig. 238 (corrected wing ♂): Blanch., Moust., 415: Brun., Rec. Ind. Mus. I, 361; IV, 486.

Penang, 24-x-07 [*Freear*]; Friedrich Wilhelmshafen, Seleo Berlinhafen and Mt. Hausemann, Astrolabe Bay [all Papua and

[1] Edwards says (Bull. Ent. Res. IV, 227) that the ♂ belongs to a different species at present undescribed. He should, however, have retained the specific name for the ♂ and renamed the ♀.

Biro]; Pasir Ganting, W. Coast Sumatra, vi-14; Lampongs, Sumatra, vi-14 [both *t. Stanton*]; Pampanga [*Whitmore*]; Negros I., Philippines [*Banks*]. Also occurs in N. Queensland. *Type* in British Museum.

multiplex Theob., Monog. Culic. III, 293, ♀; fig. 165, claws (*Skusea*), (1903).
Skusea multiplex, Brun., Rec. Ind. Mus. I, 336.
Pseudoskusea multiplex, Theob., Monog. Culic. IV, 192, ♂: Brun., Rec. Ind. Mus. IV, 450.
Friedrich Wilhelmshafen, Stephansort; Muina; Ins. Graget [all Papua and *Biro*]. *Type* in Hungarian Museum.

niveus Ludl., Jour. N. Yk. Ent. Soc. XI, 139 (*Stegomyia nivea*). (1903).
Stegomyia nivea, Leices., Culic. Malaya, 87, ♂ ♀.
Scutomyia nivea, Theob., Monog. Culic. V, 203: Brun., Rec. Ind. Mus. I, 336; IV, 452.
Ochlerotatus niveus, Edw., Bull. Ent. Res. IV, 227.
Stegomyia pseudonivea, Theob., Ann. Mus. Hung. III, 75 (1905). Theob., Monog. Culic. IV, 188, ♀; V, 176, ♂, fig. 64, head: Brun., Rec. Ind. Mus. I, 332; IV, 448.
Fed. Malay States; Oras, Samor Philippine Is., v, vi, 1902; Andaman Is. [*Lowis*].
Type of *niveus* in Army Medical Museum, Washington, of *pseudonivea* in Hungarian National Museum.
See note under *S. amesii*, Brun., Rec. Ind. Mus. I, 329.

albotaeniatus Leices. in Theob., Entom. XXXVII, 111, ♂ ♀ (*Danielsia*), (1904).
Danielsia albotaeniata, Theob., Monog. Culic. IV, 241, ♂ ♀; fig. 72 (cephalic and scutellar adornment): Brun., Rec. Ind. Mus. I, 338; IV, 458: Leices., Culic. Malaya, 117, ♂ ♀.
Malay Peninsula. *Type* in Leicester coll.

melanopterus Giles, Jour. Trop. Med. VII, 367 (*Finlaya*), (1904).
Finlaya melanoptera, Banks, Phil. Journ. Sci. I, 990 (1906).
Ochlerotatus melanopterus, Edw., Bull. Ent. Res. VII, 214.
Popea palawanensis, Ludl., Psy. XXI, 31 (1914).
Philippines. *Type* of *melanopterus* in British Museum.

flavipennis Giles, Jour. Trop. Med. VII, 367 (*Finlaya*), (1904).
Pampanga [*Whitmore*]. *Type* in British Museum.

niveoscutellatus Theob., Jour. Econ. Biol. I, No. 1, 22; pl. iii, 5, ♀ (*Reedomyia*), (1905).
Theob., Monog. Culic. IV, 259, ♂ ♀; fig. 79, ♂, fore claws: Brun., Rec. Ind. Mus. IV, 487.
India; Philippines [*t. Ludlow*]. *Type* in British Museum.

alboscutellatus Theob., Ann. Mus. Hung. III, 80, ♀ (*Lepidotomyia*), (1905).
Reedomyia alboscutellata, Theob., Monog. Culic. IV, 261, ♀; fig. 80, wing, ♀: Brun., Rec. Ind. Mus. IV, 487.

Lepidotomyia alboscutellata, Leices., Culic. Malaya, 132, ♂ ♀: Brun., Rec. Ind. Mus. I, 339.

Simbang (Huon Gulf), and Friedrich Wilhelmshafen [both Papua and *Biro*]; Kuala Lumpur. *Type* in Hungarian Mus.

pampangensis Ludl., Can. Ent. XXXVII, 94, ♀ (*Reedomyia*), (1905).

Reedomyia pampangensis, Theob., Monog. Culic. IV, 258, ♀. Brun., Rec. Ind. Mus. I, 362.

Anzeles, Pampanga, ix [*Whitmore*].

Type in Army Medical Museum, Washington.

aranetana Banks, Phil. Jour. Sci. I, 1001, ♂ ♀ (*Finlaya*), (1906).

Finlaya aranetana, Brun., Rec. Ind. Mus. I, 361.

Bago, Negros I., on the Siya Siya Peak of the Canlaon Volcano, 700 metres, vi.

Types in Entom. coll. No. 6066, ♂ ♀, Bureau of Science, Manila.

pallidostriatus Theob., Monog. Culic. IV, 410, ♂ ♀, fig. 175, wing ♂ (*Culex*), (1907).

Ochlerotatus pallidostriatus, Edw., Bull. Ent. Res. IV, 228.

Ochlerotatus ochraceus, Edw. (pt.), Bull. Ent. Res. II, 250.

Culex pallidostriatus, Edw., Bull. Ent. Res. IV, 228.

Culex parascelos, Theob., Rec. Ind. Mus. IV, 18, ♀ (1910): *id.*, Monog. Culic. V, 379: Brun., Rec. Ind. Mus. IV, 473.

Mimeteculex kingii, Theob., 3rd Rep. Wellc. Labor., 258 (1908).

India [*James, Christophers*]; Madras town, 30-x-08 [*Hodgart*]; Peradeniya, xii [*Green*].

Type of *pallidostriatus* in British Museum; of *parascelos* in Indian Museum. Edwards now considers *ochraceus*, Theob., typical form, to be confined to the Ethiopian Region.

taeniatus Leices., Culic. Malaya, 133, ♂ ♀ (*Lepidotomyia*), (1908).

Lepidotomyia taeniata, Brun., Rec. Ind. Mus. IV, 459.

Malaysia. *Type* in Leicester collection.

ostentatio Leices., Culic. Malaya, 193, ♀ (*Aioretomyia*), (1908).

Ochlerotatus ostentatio, Edw., Bull. Ent. Res. IV, 228.

Aioretomyia ostentatio, Brun., Rec., Ind. Mus. IV, 490.

Pseudohowardina chrysoscuta, Theob., Monog. Culic. V, 228, ♀; fig. 94, wing (1910).

Malaysia; Peradeniya, iv-07 [*Green*].

Type of *ostentatio* in Leicester collection; of *chrysoscuta* in British Museum. Edwards notes that as the ♂ is unknown, the location here of this species is provisional.

lowisii Theob., Monog. Culic. V, 257, ♂ ♀; fig. 121, head ♀, 122 wing, 123, head ♂, 124, wing, ♂ (*Reedomyia*), (1910).

Galle, Ceylon, 6 iv-07 [*Fletcher*]; Andaman Is. [*Lowis* and *Ray White*]. *Type* in British Museum.

lophoventralis Theob., Rec. Ind. Mus. IV, 13 (*Pseudocarrollia*), (1910).

Ochlerotatus lophoventralis, Edw., Bull. Ent. Res. VII, 214.

Pseudocarrollia lophoventralis, Theob., Monog. Culic. V, 186, ♀: Brun., Rec. Ind. Mus. IV, 454.
Purnea, Bengal (*type*) [*Paiva*]; Pusa [*Howlett*].
Type in Indian Museum.

alboannulis Ludl., Psyche XVIII, 132, ♀ (*Duttonia*), (1911).
Mindanao, Philippine Is., i, xi, xii.
Type in Army Medical Museum, Washington.

taeniorhynchoides Chris., Paludism, No. 2, p. 68 (*Leslieomyia*), (1911).
Ochlerotatus taeniorhynchoides, Edwards, Bull. Ent. Res. IV, 227.
Pecomyia maculata, Theob. (*nec* Meigen), Jour. Econ. Biol. I, 24; pl. iv, 7 (1905): Theob., Monog. Culic. IV, 266, ♂ ♀; figs. 82, 83, 84, wings ♀, India [*James*; *Christophers*].
Type, location of that of *taeniorhynchoides* unknown to present author; that of *maculata* in British Museum. Mr. Edwards says *maculata* may possibly be distinct, in which case it must be renamed, as *Culex maculatus*, Mg. falls in this genus.

annulifemur Edw., Bull. Ent. Res. V, 77, ♂ (1914).
Jhansi, N.W. India, viii, 1900 [*Giles*].
Type in British Museum.
The specimen was the *type* ♂ of *Stegomyia pipersalata*, Giles, but that author had confounded two species under one name. Edwards fully describes it.

jamesii Edw., *loc. cit.*, 77 (1914).
Colombo [*James*]; Galle [*Fletcher*]. *Type* in Brit. Mus.

oreophilus Edw., Bull. Ent. Res. VI, 357, ♀ (1915—16).
Gharia, Murree Hills, W. Himalayas, 16-viii. Unique *type* in British Museum, sent by Pusa Agricultural Research Institute.

koreicus Edw., Bull, Ent. Res. VII, 212, ♂ ♀ (1916—17).
Korea [*Dr. Mills*]. *Types* presented to British Museum by Dr. Stanton.

Aedes, Mg.

Syst. Besch. I, 13 (1818).
Sch., F. Austr. II, 630: Ficalbi, Bull. Soc. Ent. It., 299 (1896): Theob., Monog. Culic. II, 224; III, 285, restricted; V, 482, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 35: Giles, Handb., 343; 2nd ed., 480; tab. spp., 346: Blanch., Moust., 399, ♂ ♀: Leices., Culic. Malaya, 183: Brun., Rec. Ind. Mus. IV, 489; X, 45, tab. *Aedes* group: Edw., Bull. Ent. Res. IV, 229; VII, 203: Alcock, Ent. Med. Off., 102: Howard, Dyar and Knab, Mosq. N. Am., etc., IV, pt. 2, 612.
GENOTYPE, *A. cinereus* Mg., by original designation.

Heteronycha, Arrib., Rev. Mus. La Plata. I, 397 (1891).

GENOTYPE, *Culex aestuans* Wied., as *dolosa*, sp. nov., by original designation.[1]

Skusea, Theob., Monog. Culic. III, 291 (1903).

Id., *loc. cit.*, IV, 542; V, 488, tab. spp.: Gen. Ins., Fasc. 26, 19: Blanch., Moust., 416: Brun., Rec. Ind. Mus. I, 335; IV, 450, notes; X, 71: Edw., Bull. Ent. Res. VII, 203.

GENOTYPE, *S. pembaensis* Theob., by Blanchard's designation, 1905.

Verrallina, Theob., Monog. Culic. III, 295 (1903).

Theob., *loc. cit.*, V, 494, tab. spp.: Blanch., Moust., 417. Leices., Culic. Malaya, 196, ♂ ♀.

GENOTYPE, *Aedes butleri* Theob., by Coquillett's designation[2] (1910).

Macleaya, Theob., Entom. XXXVI, 154 (1903).

Theob., Monog. Culic. IV, 203.

GENOTYPE, *M. tremula, sp. nov*, *loc. cit.*

Neomacleaya, Theob., Monog. Culic. IV, 238 (1907).

GENOTYPE, *N. indica* Theob., by original designation.

Aioretomyia, Leices., Culic. Malaya, 185 (1908).

Brun., Rec. Ind. Mus. IV, 490; X, 55.

GENOTYPE, *A. varietas* Leices., by my own designation.

Catageiomyia, Theob., Monog. Culic. V, 115 (1907).

This is a *nomen nudum*, of which no further information seems available.

Howard, Dyar and Knab give nearly fifty generic synonyms of *Aedes*. As Edwards recognises several of them as valid genera, viz. *Banksinella*, *Grabhamia*, *Howardina*, *Ochlerotatus*, *Stegomyia* and *Taeniorhynchus*, I have adopted all these latter with the respective synonymy of each as worked out by that author, the remainder of the American authors' synonyms being recognised here as such.

pseudotaeniatus Giles, J. Bomb. Nat. Hist. Soc. XIII, 606, prov. descr., 1901; Entom. XXXIV, 192 (*Stegomyia*), (1901).

Hulecoetomyia pseudotaeniata, Brun., Rec. Ind. Mus. I, 337; IV, 455: Theob., Monog. Culic. V, 222 (♂ descr.); fig. 89, wing, 90, head ♂, 91, ♂ genitalia.

Stegomyia pseudotaeniata, Giles, Handbk., etc., 2nd ed., 379, ♂ ♀; pl. xiv, 8, venation, 9, body, 10, larva: Theob., Monog. Culic. I, 312, ♀; fig. 96, thorax, head ♀, wing scales; 314, larva described: *loc. cit.*, III, fig. 16 (p. 28), larva: Blanch., Moust., 261, ♀.

Dehra Dun [*Thomson*]; Bakloh, Punjab; Naini Tal, 6000—8000 ft. [*Giles*]; Lushai Hills, 29-vii-14; Rizal, Manila, i [*Banks*]. *Type* in British Museum.

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[1] *Culex aestuans*, Wied., has been regarded by some as synonymous with *C. fatigans*, Wied., in which case the generic synonymy here seems doubtful.

[2] Edwards in selecting *butleri* as genotype (Bull. Ent. Res. IV, 229) overlooks Coquillett's designation of the same species in 1910.

uncus Theob., Monog. Culic. II, 53 (*Culex*), (1901).
Aedes uncus, Edwards, Bull. Ent. Res. IV, 229; VII, 223, fig. 8*d*, ♂ genitalia.
Culex uncus, Giles, Handbk., 2nd ed., 452, ♀: Blanch., Moust., 350, ♀.
Neomacleaya indica, var. *simplex* only, Theob., Rec. Ind. Mus. II, 201, ♀ (1908).
? *Verrallina malayi*, Leic., Culic. Malaya, 198, ♀ (1908)
Sylhet, vi [*Hall*]; Klang; Kuala Lumpur. *Types* of *uncus* and *simplex* in British Museum; of *malayi* in Leicester's collection.

butleri Theob., Monog. Culic. II, 230, ♀ (1901).
Giles, Handbk., 2nd ed., 481, ♀: Brun., Rec. Ind. Mus. I, 367; IV, 489: Edwards, Bull. Ent. Res. IV, 229.
Verrallina butleri, Blanch., Moust., 417: Leices., Culic. Malaya, 196, ♂ ♀: Brun., Rec. Ind. Mus. IV, 491.
Skusea diurna, Theob., Entom. XXXVI, 259, ♀ (1903).
Id., Monog. Culic. IV, 547, ♀: Brun., Rec. Ind. Mus. I, 335; IV, 451.
Stegomyia hatiensis, Carter, Entom. XLIII, 275 (1910).
Malaysia; Selangor; Jugra, ix [*Durham*]; Philippine Is. [*t. Ludlow*]. *Types* of *butleri*, *diurna* and *hatiensis* in Brit. Mus.

funereus Theob., Monog. Culic. III, 292, ♀, fig. 164, head, abdomen (*Skusea*), (1903).
Skusea funerea, var. *ornata*, Theob., Ann. Mus. Hung. III, 79, ♀, pl. i, wing (1905): Theob., Monog. Culic. IV, 542; fig. 248, wing ♀: Brun., Rec. Ind. Mus. I, 335; IV, 451.
Sattelburg (Huon Gulf) and Friedrich Wilhelmshafen [both Papua and *Biro*]: Philippines [*t. Ludlow*]. *Type* of *funereus* in British Museum; of *ornata* in Hungarian Museum.

culiciformis Theob., Ann. Mus. Hung. III, 77, ♀, pl. i, wing; pl. iv, wing scales (*Skusea*), (1905).
Skusea culiciformis, *id.*, Monog. Culic. IV, 546, ♀, fig. 251, wing ♀: Brun., Rec. Ind. Mus. I, 335.
Paumomu Riv., Papua [*Loria*]. Unique *type* in Hungarian Museum.

indicus Theob., Monog. Culic. IV, 238, ♀ (*Neomacleaya*), (1907).
Aedes indicus, Edw., Bull. Ent. Res. IV, 229.
Neomacleaya indica, Brun., Rec. Ind. Mus. IV, 458.
nec *N. indica* var. *simplex*, Theob.
Skusea mediofasciata, Theob., Monog. Culic. IV, 544, ♂ ♀; fig. 249, wing ♀; 250, ♂ genitalia; pl. vii, wing scales ♀; pl. ix, ♂ genitalia (1907): Brun., Rec Ind. Mus. IV, 451.
Pseudoskusea nigritarsis, Ludl., Can. Ent. XL, 52 (1908).
Pseudoskusea mediolineata, Ludl., *loc. cit.*, XL, 332 (1908).
India [*Christophers*]; Woodlands, Ceylon, 9-x-07; Infanta, Tayabas, Philippine Is. *Type* of *indicus* and *mediofasciatus* in British Museum.

nigrescens Theob., Monog. Culic. IV, 540, fig. 246, wing ♀, 247, ♂ genitalia; pl. vi, wing scales, ♀ (1907).
Brun., Rec. Ind. Mus. IV, 490.
Castle Rock, Kanara Dist., S.W. India, i, ii, iii. *Type* in British Museum.

jugraensis Leices., Culic. Malaya, 109, ♂ ♀ (*Helecoctcomyia, lapsus*), (1908).
Brun., Rec. Ind. Mus. IV, 455.
Jugra, near Kuala Lumpur. *Type* probably lost; not in Leicester's collection.

fluviatilis Leices., Culic. Malaya, III, ♂ ♀ (*Hulecoctomyia*), (1908).
Brun., Rec. Ind. Mus. IV, 455.
Ulu Gombok, 13 miles from Kuala Lumpur. *Type* probably lost; not in Leicester's collection.

varietas Leices., Culic. Malaya, 185, ♂ ♀ (*Aioretomyia*), (1908).
Brun., Rec. Ind. Mus. IV, 491.
Kuala Lumpur; Ulu Gombak; Pangkor Haut; Klang. *Type* in Leicester collection.

singularis Leices., Culic. Malaya 188, ♂ (*Aioretomyia*), (1908).
Aedes singularis, Edw., Bull. Ent. Res. VII, 223, fig. 8c, ♂ genitalia.
Kuala Lumpur; Kuching, Sarawak [*Moulton*]. *Type* in Leicester's collection.

taeniatus Leices., Culic. Malaya, 190, ♀ (*Aioretomyia*), (1908).
Kuala Lumpur. *Type* in Leicester's collection.

perdita, *id.*, *loc. cit.*, 192, ♂ (*Aioretomyia*), (1908).
Aioretomyia perdita, Brun., Rec. Ind. Mus. IV, 490.
Type lost.

fragilis Leices., Culic. Malaya, 199, ♂ (*Verrallina*), (1908).
Aedes fragilis, Edw., Bull. Ent. Res. IV, 230.
Verrallina fragilis, Brun., Rec. Ind. Mus. IV, 491.
Verrallina indecorabilis, Leices., Culic. Malaya, 200, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 492.
Kuala Lumpur. *Type* of *fragilis* and *indecorabilis* in Leicester's coll.

imitator Leices., Culic. Malaya, 201, ♀ (*Verrallina*), (1908).
Kuala Lumpur. *Type*, damaged, in Leicester's collection.

virilis, *id.*, *loc. cit.*, 197, ♂ (*Verrallina*), (1908).
Kuala Lumpur. *Type*, a unique ♂, in Leicester's collection.

pseudodiurna Theob., Rec. Ind. Mus. IV, 32, ♂ (*Skusea*), (1910).
Skusea pseudodiurna, *id.*, Monog. Culic. V, 491, ♂: Brun., Rec. Ind. Mus. IV, 451.

Sukna, 1-vii-08 [*Annandale*]. *Type* in Indian Museum, a unique specimen.

uniformis Theob., Rec. Ind. Mus. IV, 33, ♀ (*Skusea*), (1910).
Skusea uniformis, *id.*, Monog. Culic. V, 491, ♀.
Pallode, Travancore, 15-xi-08 [*Annandale*]. *Type*, unique, in Indian Museum.

pseudomediofasciatus Theob., Monog. Culic. V, 489, ♂ (*Skusea*), (1910).
Peradeniya and Hakgala, Ceylon, iii, iv, 07 [*Green*]. *Type* in British Museum.

panangensis Ludl., Psyche XXI, 159 (1914).
Philippine Is.

ceylonicus Edw., Bull. Ent. Res. VII, 221, ♂, fig. 8*a*, ♂ genitalia (1916—17).
Colombo, a unique ♂ [*K. McGahey*]. *Type* in British Museum.

yerburyi Edw., *loc. cit.*, 222, ♂, fig. 8*g*, ♂ genitalia (1916—17).
Kitli Station, Ceylon, 29-xi-91 [*Yerbury*]. *Type* (unique) in British Museum.

leicesteri Edw., *loc. cit.*, 222, ♂, fig. 8*e*, ♂ genitalia (1916—17).
Kuala Lumpur, one ♂, by stream in ampang jungle, 21-v-04 [*Leicester*].

A. ? **curtipes** Edw., Bull. Ent. Res. V, 283, ♀ (1914—1915).
Membakut, N. Borneo [*Roper*]; Klang [*Leicester*]; also two ♀ ♀, including *type* of species from old collection of Sarawak Museum. *Type* in British Museum.

Leicesteria, Theob.

Entom. XXXVII, 211 (1904).
Theob., Gen. Ins., Fasc. 29, 20: *id.*, Monog. Culic. IV, 201; V, 212: Leices., Culic. Malaya, 94: Edwards, Bull. Ent. Res. IV, 255, 257, tab. orient. spp.: Brun., Rec. Ind. Mus. I, 337; IV, 454; X, 63.
GENOTYPE, *L. longipalpis* Leices., by original designation.

Chaetomyia, Leices., Culic. Malaya, 100 (1908).
GENOTYPE, *C. flava* Leices., by original designation.

Brevirhynchus, Theob., Rec. Ind. Mus. II, 293 (1908).
Id., Monog. Culic. V, 144, tab. spp.: Brun., Rec. Ind Mus. IV, 442; X, 56.
GENOTYPE, *B. magnus* Theob., by original designation.

Leicesteriomyia, Brun., Rec. Ind. Mus. IV, 452, *nom. nov.* for *Chaetomyia* Leices , preocc. Brauer and Berg., 1892 in Tachininae: Brun., Rec. Ind. Mus. X, 63.

longipalpis Leices. in Theob., Entom. XXXVII, 211, ♂ ♀ (1904).
Theob., Monog. Culic. IV, 201, ♂ ♀ : Leices., Culic. Malaya, 94, ♂ ♀. Edw., Bull. Ent. Res. IV, 261, fig. 4, ♂ genitalia.
Kuala Lumpur [*Leicester*]. *Types* in British Museum.

magna Theob., Rec. Ind. Mus. II, 293, ♂ ♀ (*Brevirhynchus*), (1908).
Id., *loc. cit.*, IV, pl. i, wing; pl. iii, wing scales: *id.*, Monog. Culic. V, 145, ♂ ♀; fig. 51, wing; fig. 52, head, side view abdom. segments: Brun., Rec. Ind. Mus. IV, 443: Edw., Bull. Ent. Res. IV, 259, fig. 2, ♂ genitalia.
Leicesteria annulitarsis, Leices , Culic. Malaya, 100, ♂ only (1908): Brun., Rec. Ind. Mus. IV, 454.
Toxorhynchites rectirostris, Giles in Theob., Monog. Culic. V, 214, *nom. nud.* (1910).
Sylhet, v [*Hall*]; Sukna, 1-viii-08 [*Annandale*]; Maddathorai, Travancore, 17-xi-08 [*Annandale*]; Kuala Lumpur.
Types of *magna* ♂ ♀, in Indian Museum; of *annulitarsis* ♂, in Leicester's collection.

dolichocephala Leices., Culic. Malaya, 95, ♂ ♀ (*dolicocephala*), (1908).
Brun., Rec. Ind. Mus. IV, 455: Edw., Bull. Ent. Res. IV, 259.
Kuala Lumpur; Bukit Kutu (Malaysia). *Types* in Leicester's collection.

cingulata Leices., Culic. Malaya, 97, ♀ (1908).
Brun., Rec. Ind. Mus. IV, 454: Edw., Bull. Ent. Res. IV, 260, fig. 3, ♂ genitalia.
Kuala Lumpur, iv, vi. *Type* in Leicester's collection.

annulitarsis Leices., Culic. Malaya, 99, ♀ only (1908).
Brun., Rec. Ind. Mus. IV, 454: Edw., Bull. Ent. Res. IV, 260.
Kuala Lumpur. *Type* in Leicester collection.
N.B.—*L. annulitarsis*, Leices. ♂ = *L. magna*, Theob.

flava Leices., Culic. Malaya, 101, ♂ ♀ (*Chaetomyia*), (1908).
Leicesteria flava, Edw., Bull. Ent. Res. IV, 258, fig. 1, ♂ genitalia.
L. apicalis, Theob., Rec. Ind. Mus. II, 291, ♂ ♀ (1908); IV, pl. i, wing; pl. iii, wing scales: *id.*, Monog. Culic. V, 213, ♂ ♀; fig. 86, wing: Brun., Rec. Ind. Mus. IV, 454.
Brevirhynchus apicalis, Theob., Rec. Ind. Mus. IV, 7, ♀ (1910): Theob., Monog. Culic. V, 148: Brun., Rec. Ind. Mus. IV, 443.

Leicesteriomyia flava, Brun., Rec Ind. Mus. IV, 453.
Malay Peninsula. *Types* (*flava*) in Leicester collection; of *apicalis* in Indian Museum.

annulipalpis Theob., Rec. Ind. Mus. IV, 6, ♀ (*Brevirhynchus*), (1910).
Leicesteria annulipalpis, Edw., Bull. Ent. Res. IV, 257, fig. 1, ♂ genitalia.
Brevirhynchus annulipalpis, Theob., Monog. Culic. V, 148: Brun., Rec. Ind. Mus. IV, 442.
Maddathorai, Travancore, 16-xi-08 [*Annandale*]. *Type*, unique in Indian Museum. May possibly not belong to *Leicesteria*.

pendula Edw., Bull. Ent. Res. IV, 261, ♂, fig. 5, ♂ genitalia (1914).
Between Selangor and Pahang, Malay States, 16-vi-04 [*Leicester*]. *Type* in British Museum.

digitata, *id.*, *loc. cit.*, IV, 262, ♂ ♀, fig. 6, ♂ genitalia (1914).
Ulu Gombak, Malay States, 28-viii-03; 2-ix-03, *types* [*Daniels*]; between Selangor and Pahang, 16-iv-04 [*Leicester*]; Pahang, near Kuala Lumpur, 4-iv-03; 18-x-03 [*Leicester*]; Mailum Negros, Philippine Is., 9-vi-06 [*Banks*]. *Types* in British Museum.

pectinata, *id.*, *loc. cit.*, IV, 263, ♂ ♀, fig. 7, ♂ genitalia (1914).
Jugra, 3—7-x-04, *type* ♂ [*Leicester*]; Sarawak [*Hewitt*]. *Type* ♂ in British Museum.

omissa, *id.*, *loc. cit.*, V. 76, ♂ ♀ (1914).
Colombo [*James*]; Peradeniya [*Green*]. *Types* in British Museum. Possibly = *dolichocephala*, Leices., var.

Taeniorhynchus, Arrib.

Rev. Mus. La Plata, II, 147 (1891).
Theob., Monog. Culic. II, 190 (restricted); *loc. cit.*, IV, 483, generic notes, etc.; V, 419, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 30, modified: Giles, Handb., 2nd ed., 358: Blanch., Moust., 381, fig. 244, ♂ ♀, generic chars.: Leices., Culic. Malaya, 163: Edw., Bull. Ent. Res. II, 251: Brun., Rec. Ind. Mus. I, 356; IV, 478; X, 72, note on genotype.
GENOTYPE, *Culex titillans* Walk., as *C. taeniorhynchus* W.

Mansonia, Blanch., Comp. rend. So. biol. Paris (1901), LIII, 1046, *nom. nov.* for *Panoplites*, Theob., preocc. Gould, 1853, in Aves.
Blanch., Moust., 375, 356, tab. spp.: Theob., Gen. Ins., Fasc. 26, 31: *id.*, Monog. Culic. IV, 494; V, 446, tab. spp.: Leices., Culic. Malaya, 171: Brun., Rec. Ind. Mus. I, 358; IV, 81; X, 64: Howard, Dyar and Knab, Mosq. N. Amer., etc., III, pt. 1, 501.

Panoplites, Theob., Rep. Coll. Mosq. Brit. Mus., 5 (1900). *Id.*, Monog. Culic. II, 173 (1901): Giles, Handb., 2nd ed , 350.
GENOTYPE, *Culex titillans* Walk., as *Taeniorhynchus taeniorhynchus*, Wied , by Neveu Lemaire's designation.[1]
Coquillettidia, Dyar, Proc. Ent. Soc. Wash. VII, 47 (1905).
GENOTYPE, *Culex perturbans*, Walk. [(1910).
Rhynchotaenia, Brethes., Ann. Mus. Buen. Ayres. XX, 470
GENOTYPE, *Taeniorhynchus fasciolatus* Arrib., by designation of Howard, Dyar and Knab (1915).

acer Walk., List. Dipt. Brit. Mus. I, 8, ♀ (*Culex*), (1848).
nec *acer*, Theob., Monog. Culic. II, 211 (1901).
Friedrich Wilhelmshafen; Mt. Hauseman, Astrolabe Bay; Yomba [all Papua and *Biro*]. Also occurs in Queensland and New Zealand. *Type* in British Museum.

annulipes Walk., Proc. Linn. Soc. Lond. I, 6, ♀ (*Culex*), (1857).
Mansonia annulipes, Leices., Culic. Malaya, 172, ♂ ♀: Brun., Rec. Ind. Mus. I, 359; IV, 482, notes.
Panoplites annulipes, Theob., Monog. Culic. II, 185, ♀; pl. xxx, 119, ♀, full ins. col.
Culex dives, Sch., Reise Novara, 31 (1868): Giles, Handbk., etc., 261.
Culex nero, Doles., Nat. Tijd. Ned. Ind. XIV, 383, pl. v, 3 (1857): Giles, Handbk., etc., 284.
Mansonia nero, Blanch., Moust., 380, ♀.
Calcutta, 6-x-04 [*Brunetti*]; Selangor, 28-x-99 and ix [*Butler*]; Perak, "very abundant nocturnal species," [*Wright*]; Dindings, Straits, xi, xii [*Wright*]; Kuala Lumpur [*Durham* and *Leicester*]; Klang; Port Swettenham and Jugra [all *Leicester*]; Batavia [*t. Schiner*]; Rio Baco, Mindoro, Philippine Is. [*McGregor*]; Gombong, Mid-Java [*t. Doleschall*]. *Types*: I have no information about any of these.

confinnis Arrib., Revis. Mus. La Plata II, 149 (1891).
Theob., Monog. Culic. III, 289.
Culex confinnis, Giles, Handbk., etc., 247.
Chaca, Formosa.
Much doubt attaches to the correct identity of this species, which is a South American one.

brevicellulus Theob., Monog. Culic. II, 212, ♂ ♀; fig. 255, 256, var. chars.; pl. xxiii, 89, full ins. col. ♂ (1901).
Taeniorhynchus brevicellulus, *id.*, *loc. cit.*, III, 268 (correction in wing): Giles, Handbk., 2nd ed., 363, ♀ (*brevicellula*): Blanch., Moust., 389, ♂ ♀ (*brevicellula*): Leices., Culic. Malaya, 163, ♂ ♀: Brun., Rec. Ind. Mus. I, 357: Edw., Bull. Ent. Res. IV, 230.
Chrysoconops brevicellulus, Brun., Rec. Ind. Mus. IV, 481.

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[1] For selection of and identification of type species, see Howard, Dyar and Knab, Mosq. N. Amer., etc., III, pt. 1, 502.

Taeniorhynchus acer, Theob. nec Walk., Monog. Culic. II, 211 (1901).
Chrysoconops pygmaeus, Theob., Rec. Ind. Mus. II, 300, ♀ (1908): *id.*, Monog. Culic. IV, 25, ♂; pl. i, wing; iii, wing scales: *id.*, *loc. cit.*, V, 435, ♂ ♀; fig. 192, wing, 193, head, ♂, 194, ♂ genitalia, 195, wing, ♀: Brun., Rec. Ind. Mus. IV, 481.
Chrysoconops fuscopteron, Theob., Tijd. v. Ent. LIV, 239 (1911).

Sylhet [*Hall*]; Saugar; Manipur, viii [*Gourlay*]; Manipur Haut, ii, v, vi; Calcutta, vii, viii; Purnea and Rajmahal, Bengal; Selangor; Perak: Thayetmo, Upper Burma, viii; Ceylon [*Green*]; Kuala Lumpur [*Leicester*]; Sungei Penoh, Korinchi Valley, Sumatra, 2,700 ft.; Siolak-Daras, 3,100 ft., Sumatra, viii-14 [both *t. Stanton*]; Philippine Is. [*t. Ludlow*].

Types: *brevicellulus*, in British Museum; *pygmaeus*, ♂ ♀, in Indian Museum (*cotype* in British Museum); *acer*, Theob. (nec Walk.), in Brit. Mus.; *fuscopteron*, in Amsterdam Museum.

annulatus Leices., Culic. Malaya, 174, ♀ (*Mansonia*), (1908)
Brun., Rec. Ind. Mus. IV, 482.

Kuala Lumpur. *Type* in Leicester's collection.

aureosquammatus Ludl., Can. Ent. XLI, 234, ♀ (1909).
Theob., Monog. Culic. V, 425 (*aureosquamata, lapsus?*).
Taeniorhynchus pagei, Ludl., Psyche XVIII, 128: Theob., Monog. Culic. V, 618.

Parang, Mindanao, Philippine Is., 27-x—xii. *Types* of *aureosquammatus* and *pagei* in Army Medical Museum, Washington.

chrysogona Knab, Ent. News. Phil. XX, 386, ♂ ♀ (*Mansonia*), (1909).
Brun., Rec. Ind. Mus. IV, 482.
Chrysoconopas aurites, Ludl. (nec Theob.).

Parang, Mindanao, Philippine I., 31-v-06. *Type* in U.S. Nat. Museum, cat. no. 12,626.

nigrosignatus Edw., Bull. Ent. Res. VII, 224, nom. nov. for *conopas*, Theob. nec. Frauenfld. (1916—17).
Taeniorhynchus conopas, Theob., Monog. Culic. I, 202.
nec *Culex conopas*, Frnfld.
? *Pseudotaeniorhynchus conopas*, var. *giblini*, Taylor, Tr. Ent. Soc. Lond., p. 198, ♀ (1914).

Lake Kamu Gold Field, Papua [*Dr. Giblin*]. *Type* in Australian Institute of Tropical Medicine. Edwards considers *giblini* sufficiently distinct to warrant ranking it as a good species.

Mansonioides, Theob.

Monog. Culic. IV, 498 (1907).

Theob., *loc. cit.*, V, 452, tab. spp.: Brun., Rec. Ind. Mus. IV, 483; X, 64: Edw., Bull. Ent. Res. II, 253.

GENOTYPE, *M. guttata* Theob., by original designation.

uniformis Theob., Monog. Culic. II, 180, ♀; pl. xxx, 118, full ins. col., ♀ (*Panoplites*), (1901).

Mansonia uniformis, *id.*, *loc. cit.*, III, 270 fig. 144, pupa: Blanch., Moust., 370, ♀: Brun., Rec. Ind. Mus. I, 359; IV, 483: Leices., Culic. Malaya, 171, ♂ ♀: Edw., Bull. Ent. Res. II, 254.

Panoplites uniformis, Giles, Handbk., 2nd ed., 353; pl. xiii, 3 *a—d*, ♂, head and venation ♂ ♀ (1902).

Panoplites africanus, var. *reversus*, Theob., Monog. Culic. II, 189 (1901).

nec *P. africanus*, typical form, Theob., *loc. cit.*, 187.

Panoplites australiensis, Theob. in Giles, Handbk., 2nd ed., 355 (1902)

? *Mansonia seguini*, Laveran, Comp. Rend. Soc. Biol. Paris LIII, 992 (*Panoplites*), (1901): Blanch., Moust., 380, ♀: Theob., Monog. Culic. IV, 496: Brun., Rec. Ind. Mus. IV, 482.

Sylhet, i, ii, iii, v, vi, vii, xii [*Hall*]; Manipur, vi, ix; Shahjahanpur, N.W. India, x [*Giles*]; Bhogaon, 30-ix-08 and x; Katihar, x [both Bengal and *Paiva*]; Balighai, near Puri, Orissa, 23-x-08; Gopkuda I., Chilka Lake, viii; Calcutta, 2-vii-07; Travancore and Cochin States, 19-xi-08, 4-xi-08 [all *Annandale*]; Quilon, 7-iv-00 [*James*]; Taiping [*Wray*]; Dilo, Friedrich Wilhelmshafen and Ins. Graget (all Papua) [*Biro*]; Bayembang Pangasinan, Philippine Is. [*Chamberlain*]; Manila; Rizal; Fort McKinley [*Banks, Schultze, Craig, Araneta*]; Rangoon, 25-ii-08 [*Annandale*]; Kuala Lumpur [*Leicester*]. *Type* of *uniformis* in British Museum.

According to Edwards' latest investigations, *africanus*, Theob., typical form, is a valid species, with *Mansonia major*, Theob. and *Mansonia nigerrima*, Theob., as synonyms, the species not being oriental; but *africanus*, var. *reversus* is synonymous with *uniformis*.

annulifera Theob., Monog. Culic. II, 183, ♀ (*Panoplites*), fig. 224, wing; pl. xxx, 120, ♀, full ins. coll. (1901).

Panoplites annulifera, Giles, Handbk., 2nd ed., 356, ♀; pl. xiii, 8, hind leg.

Mansonia annulifera, Theob., Monog. Culic. III, 274: Blanch., Moust., 380, ♀: Leices., Culic. Malaya, 174, ♀ (Theob's. desc. copied): Brun., Rec. Ind. Mus. I, 359; IV, 482.

Mansonioides annuliferus, Edw., Bull. Ent. Res. IV, 230.

Mansonia 7-punctata, Theob., Ann. Mus. Hung. III, 187 (1905). *Id.*, Monog. Culic. IV, 494, ♀.

Mansonioides 7-guttata, Theob., Monog. Culic. IV, 499, ♀; figs. 226, 227, wings, ♀ (1907).

Calcutta, viii, xii; Port Canning, xii [*Annandale*]; Purneah, x; Bhogaon, 7-viii-09 [both Bengal and *Paiva*]; Bengal [*Macrae*]; Dacca; Sylhet, v, vi [*Hall*]; Manipur [*Gourlay*]; Madras, 12-xii-99 [*Goodrich*]; Quilon [*James*]; Ceylon [*t. Banks*];

Singapore [*Durham*]; Perak [*Wright*]; Sarawak [*Barker*]; Friedrich Wilhelmshafen, Papua, xi, 10 [*Biro*]; Bayembang (Pangasinan, Philippine Is.) [*Chamberlain*]; Manila [*Banks*].

Type of *annulifera* and *7-guttata* in British Museum; that of *7-punctata* in Hungarian Museum.

Culiciomyia, Theob.

Monog. Culic. IV, 227 (1907).

Theob., *loc. cit.*, V, 229, tab. spp.: Brun., Rec. Ind. Mus IV, 456; X, 58: Edw., Bull. Ent. Res. IV, 234.

GENOTYPE, *C. inornata* Theob., by my own designation.

Neomelanoconion, Theob., Monog Culic. IV, 514 (1907), ♂ only (*t.* Edw., Bull. Ent. Res. II, 254).

GENOTYPE, *Culex rima* Theob., by original designation.

Pectinopalpus, Theob., Ann. Mag. Nat. Hist. (8) V, 375 (1910).

GENOTYPE, *P. fuscus* Theob., by original designation.

Trichorhynchus, Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 241 (1905): Theob., Monog. Culic. IV, 270: Brun., Rec. Ind. Mus. I, 356; X, 73.

Trichorhynchomyia, Brun., Rec. Ind Mus. IV, 477, *nom. nov.* for *Trichorhynchus*, Theob., preocc Balbiani 1887 in Protozoa: Brun., *loc. cit.*, X, 73.

viridiventer Giles, Jour. Bomb. Nat. Hist Soc. XIII, 609 (*Culex*, provis. descr.), (1901).

Culex viridiventer, Theob., Monog. Culic. II, 128, ♂ ♀, fig. 219, claws, ♂ ♀, abdom. segments, wing scales; ♂ palpus and proboscis, fig. 220, larva; pl. xxix, 116, ♀, full ins. col.: Giles, Handbk., etc, 2nd ed., 445, ♂ ♀; pl. xvii, 12, ♂ claw, venation, abdomen, larva: Blanch., Moust., 346, ♂ ♀: Brun., Rec. Ind. Mus. I, 354: Edw, Bull. Ent. Res. IV, 235.

Culex angulatus, Theob., Monog. Culic. II, 324, ♀ (1901). Blanch, Moust., 362, ♀.

Culex longifurcatus, Theob. (nec Becker), Rec Ind. Mus. IV, 19, ♂ ♀ (1910).

Culex pseudolongifurcatus, Theob. (*nom. nov.* for *C. longifurcatus*, preocc. by Becker), Monog. Culic. V, 366 (1910).

Naini Tal, 4000 ft., vi; 7000 ft., vi, vii [both *Giles*]; Katmandu, Nepal, Dahawanga Hill, Bengal, Nepalese Frontier, 16-ii-08. *Types* of *viridiventer*, *angulatus* and *longifurcatus* in British Museum; that of *pseudolongifurcatus* in Indian Museum.

pallidothorax Theob., Jour. Econ. Biol. I, 32 (*Culex*), (1905).

Theob., Monog. Culic. IV, 446, ♂ ♀ (*pallidothorax* emend.). Edw., Bull. Ent. Res. IV, 235.

Culex albopleura, Theob, Monog. Culic. IV, 456, ♀ (1907).

Culiciomyia annuloabdominalis, Theob., Monog. Culic. V, 236, ♂ ♀, fig. 102, occiput, 103, head (1910).

India [*James, Christophers*]; Peradeniya, ii-07 and Hakgala, Ceylon, v-07 [both *Green*]. *Types* of *pallidothorax*, *albopleura* and *annuloabdominalis* in British Museum.

pulla Theob., Ann. Mus. Hung. III, 87, ♀, fig. 6, head (*Culex pullus*), (1905).

Theob., Monog. Culic. IV, 232, fig. 66, head scales.

Muina, Papua, 1900 [*Biro*]. *Type*, unique, in Hungarian Museum.

fusca Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 242, ♀; pl. A. 2, head, palpus, clypeus, antenna, scultellum (*Trichorhynchus fuscus*), (1905).

Culiciomyia fusca, Edw., Bull. Ent. Res IV, 235.

Trichorhynchus fuscus, Theob., Monog. Culic IV, 270, ♀: Edw., Bull. Ent. Res. III, 33; IV, 235.

Trichorhynchomyia fuscus, Brun., Rec. Ind. Mus. IV, 477.

Culiciomyia inornata, Theob., Monog. Culic. IV, 227, ♂ ♀, fig. 61, head scales; 62, wing, ♀; 63, ♂ genitals (1907).

Peradeniya, xii [*Green*]; Kuching, xi [*Barker*]; Philippines [*t. Ludlow*]. *Type*: Theobald wrote me that it was in the Hungarian Museum, subsequently (Monog. V), stating it to be in the British Museum; that of *inornata* is there.

annulata Theob., Monog. Culic. IV, 230, ♂ ♀, fig. 64, wing, ♀; 65, ♂ genitalia; pl. i wing scales, ♀ (1907).

Brun., Rec. Ind. Mus. IV, 457.

Kuching, Sarawak [*Barker*]; Philippines [*t. Ludlow*].

Type in British Museum.

ceylonica Theob., Monog. Culic. V, 236, ♂ ♀, fig. 70, wing, ♀ (1907)

Peradeniya, ii-07; Maskeliya, Ceylon, iv-07 [both *Green*]. *Types* in British Museum, a unique pair.

bahri Edw., Bull. Ent Res. V, 79, ♂ ♀ (1910).

Badulla, Ceylon; a series bred from larvae, 3 ♂ ♂, including *type*, and 4 ♀ ♀ in British Museum; *cotypes* in London School of Tropical Medicine; Hakgala, Ceylon; Peradeniya [*Green*]. *Type* in British Museum.

spathifurca Edw., Bull. Ent. Res. V, 284, ♂ (1914—15).

Kuching, Sarawak, 22-vii-14, in house [*Moulton*]; a ♀ from Kuching reservoir, 30-vii-14, may be this species. *Type* in British Museum

Lophoceratomyia, Theob.[1]

Ann. Mus. Hung., III, 93 (1905)

Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 245: *id.*, Monog. Culic. IV, 471 (generic notes): Leices., Culic. Malaya, 119.

[1] In Edwards' latest paper he ranks this as a subgenus only of *Culex*, and gives a table of oriental species.

GENOTYPE, *L. fraudatrix* Theob., by my own designation (Rec. Ind. Mus. X, 64)

Philodendromyia, Theob., Monog. Culic. IV, 623 (1907).

GENOTYPE, *P. barkerii* Theob., the original species.

Oculeomyia, pt. Theob., *loc. cit.*, IV, 515 (1907).

GENOTYPE, *O. sarawaki* Theob., the original species.

uniformis Theob., Ann. Mus. Hung. III, 93, ♂ ♀ ; pl. A, 3, antenna, ♂ ; pl. B, 4, palpus (1905).

Id., Jour. Bomb. Nat. Hist. Soc. XVI, 245 : *id.*, Monog, Culic. IV, 473, ♂ ♀ : Edw., Bull. Ent. Res. V, 80 ; VII, 227.

Peradeniya, v [*Green*]. *Type* in British Museum.

fraudatrix Theob., Ann. Mus. Hung. III, 94, ♂ ♀ , fig. 7, palpus ♂ ♀ , 8, antennal organs (1905).

Id., Monog. Culic. IV, 474, ♂ ♀ , fig. 208—211, var. chars. : Edw., Bull. Ent. Res. IV, 235.

var. **variata** Leices., Culic. Malaya, 121, ♂ ♀ (1908).

Friedrich Wilhelmshafen and Stephansort [both Papua and *Biro*]; Malay Peninsula. *Type* of *fraudatrix* in Hungarian Museum ; of *variata* in Leicester coll

brevipalpis Theob , Ann. Mus Hung. III, 96, ♂ , fig. 9, var. chars. (1905).

Id., Monog. Culic. IV, 477, ♂ , fig. 12, var. chars. : Leices., Culic. Malaya, 129 (Theob. descr. copied) : Edw., Bull. Ent. Res. IV, 236.

eminentia, Leices., Culic. Malaya, 131, ♂ (1908).

Singapore [*Biro*] ; Kuala Lumpur. *Type* of *brevipalpus* in Hungarian Museum ; of *eminentia* in Leicester collection.

Edwards suggests the use of the name *eminentia*, Leices. instead of the earlier *brevipalpus*, to avoid confusion with *Culex* (*Cyathomyia*) *brevipalpis*, Giles, but this does not appear to me to be legitimate.

minutissima Theob., Monog. Culic. IV 135, ♀ (*Culiciomyia*), (1907).

Lophoceratomyia minutissima, Edw., Bull. Ent. Res. IV, 235.

Culiciomyia nigerrima, Theob. Monog. Culic. V, 233, ♀ , fig. 100, wing (1910).

Melanoconion juxtapallidiceps, *id.*, *loc. cit.*, V, 456, ♀ (1910).

Peradeniya, ii [*Green*] ; Trincomalee, x, 1907 [*Green*].

Types : all three in the British Museum.

barkeri Theob., Monog. Culic. IV, 623, ♂ , fig. 289, head, scutellum, palpus, ♂ ; fig. 290, wing, ♂ ; pl. vii, wing scales, ♀ (*Philodendromyia*), (1907).

Brun., Rec. Ind. Mus. IV, 503 : Edw., Bull. Ent. Res. IV, 236 ; VII, 227.

sylvestris, Leices., Culic. Malaya, 125, ♂ ♀ (1908): Brun., Rec. Ind. Mus. IV, 465.

quadripalpis, Edw., Bull. Ent. Res. V, 80, ♂ (1914).

Sarawak, vii [*Barker*]; Malaysia. *Types* of *barkeri* and *quadripalpis* in British Museum; *paratypes* in Cambridge Museum.

rubithoracis Leices., Culic. Malaya, 119, ♂ ♀ (1908).

Brun., Rec. Ind. Mus. IV, 464: Edw., Bull. Ent. Res. IV, 236.

Oculeomyia fulleri, Ludl., Can. Ent. XLI, 97, ♀ (*Oculiomyia*), (1909): Theob., Monog. Culic. V, 478, ♀ (Ludl. descr. copied): Brun., Rec. Ind. Mus. IV, 485.

?*Lophoceratomyia niger*, Leices., Culic. Malaya, 123 (1908).

Kuala Lumpur, Parang; Mindanao, Philippines, x. *Type* of *rubithoracis* in Leicester's collection; of *fulleri* in Army Medical Museum, Washington.

nigra Leices., Culic. Malaya, 123, ♂ ♀ (*niger*), (1908).

Brun., Rec. Ind. Mus. IV, 464.

Kuala Lumpur. *Types* in Leicester collection.

Edwards notes that if *Lophoceratomyia* be considered only a subgenus of *Culex* the name *nigra* is preoccupied, but thinks Leicester's species is probably synonymous with *rubithoracis*.

minor Leices., Culic. Malaya, 126, ♂ ♀ (1908).

Brun., Rec. Ind. Mus. IV, 464: Edw., Bull. Ent. Res. VII, 227.

Malaysia *Type* in Leicester collection.

It is possible, as Edwards notes, that this name may be antedated by *Culex minor*, Theobald, Oct. 1908.

taeniata Leices., Culic. Malaya, 127, ♂ ♀ (1908).

Brun., Rec. Ind. Mus. IV, 465.

Kuala Lumpur; Klang. *Type* in Leicester collection.

See note under *nigra*, the same argument applying here, *taeniata* possibly being synonymous with some other species (Edwards here repeating the name *taeniata*, apparently in error for some other).

mammilifer Leices., Culic. Malaya, 128, ♂ ♀ (1908).

Brun., Rec. Ind. Mus. IV, 464: Edw., Bull. Ent. Res. IV, 236.

bicornuta, Theob., Rec. Ind. Mus. IV, 25, ♂ (1910).

Id., Monog. Culic. V, 412, ♂, figs. 178—182, var. chars.: Brun., Rec. Ind. Mus. IV, 463.

Kuala Lumpur: Raub (Malaysia); Kawkareik, base of Dawna Hills, 4-iii-08 [*Annandale*]. *Type* of *mammilifer* in Leicester coll.; of *bicornuta* a dissected ♂ in the Indian Museum.

hewitti Edw., Bull. Ent. Res. V, 80, ♂ ♀ (1914).

Matang, Sarawak [*Hewitt*]. *Type* in British Museum; *paratypes* in Cambridge Museum

curtipalpis Edw., Bull. Ent. Res. V, 127, ♂ (1914—15).

Kuching reservoir, Sarawak, 6-iii-14 [*Moulton*]. *Type* in British Museum.

Culex, Linn.

Syst. Ent., Ed. X, 602 (1758).

Sch., Fauna Austr. II, 625: Giles, Handbk., etc., 186; 2nd ed., 386: Theob., Monog. Culic. I, 326; IV, 387; V, 323, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 24; 25, list spp. world: Blanch., Moust., 267, 269, tab. spp. in 9 sections; 627, supp. tab.; 372, list of uncertain species: Leices., Culic. Malaya, 138, tab. of groups: Brun., Rec. Ind. Mus. I, 342; IV, 465; X, 39. *Culex* group of genera; 42, subgenera; 43, synonyms: Alcock, Ent. Med. Off., 98: How., Dyar and Knab, Mosq. N. Amer., etc., III, pt. 1, 215, list synonyms; 217, chars.

GENOTYPE, *Culex pipiens* L., by universal acceptation

Lutzia, Theob., Monog. Culic. III, 155 (1903).[1]
How., Dyar and Knab, Mosq. N. Amer., etc., III, 466.
GENOTYPE, *Culex bigotii* Bell., by original designation.

Melanoconops, Theob., Monog. Culic. III, 178, *nom. nud.* (1903).[2]

Lasioconops, Theob., *loc. cit.*, III, 235 (1903).
GENOTYPE, *L. poicilipes*, *id.*, sp. nov., *loc. cit.*

Melanoconion, Theob., Monog. Culic. III, 238 (1903).
Theob., *loc. cit.*, IV, 507; V, 455, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 32: Blanch., Moust., 395 (*Melanoconium*, emend.): Glen Herrick, Ent. News., 382: Leices., Culic. Malaya, 136: Brun., Rec. Ind. Mus. I, 360; IV, 484; X, 65.
GENOTYPE, *Culex atratus* Theob., by Dyar's designation.

Heptaphlebomyia, Theob., Monog. Culic. III, 336 (1903).
Theob., *loc. cit.*, IV, 531; V, 481: Gen. Ins., Fasc. 26, 41: *id.*, Entom. XXX, 156.
GENOTYPE, *H. simplex* Theob., sp. nov., *loc. cit.*

Culicella, Felt., N. Yk. State Mus. Bull. 79: Ent. 22, App., p. 391c (1904).
How., Dyar and Knab, Mosq. N. Amer., etc., III, 457 (as subgenus).
GENOTYPE, *Culex dyari* Coq., by original designation.

Pseudoheptaphlebomyia, Ventrillon, Bull. Mus. Paris XI, 427, *nom. nud.* (1905).
GENOTYPE, *P. madagascarensis* Ventr.

Neoculex, *id.*, *loc. cit.*, VII, 47 (1905).
GENOTYPE, *Culex territans* Walk., by original designation.

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[1] *Lutzia* is ranked as a valid genus by Howard, Dyar and Knab, with a suggestion (p. 218), that it might be a subgenus of *Culex*, the same opinion applying to *Carrollia* also.

[2] The name merely used in the text and not set up as a new genus even as a *nom. nud.*

Gnophodeomyia, Theob., Jour. Econ. Biol. I, No. 1, 21 (1905): *Id.*, Monog. Culic. IV, 251.
GENOTYPE, *G. inornata*, sp. nov., *loc. cit.*

Trichopronomyia, Theob., Ann. Mus. Hung. III, 98 (1905).
Theob., Monog. Culic. IV, 479: Brun., Rec. Ind. Mus. I, 356; IV, 477; X, 73.
GENOTYPE, *T. annulata*, sp. nov., *loc. cit.*

Melanoconium, Blanch., Moust., 395 (*Melanoconion*, emend.), (1905).

Popea, Ludl., Can. Ent. XXXVII, 95 (1905).
Theob., Monog. Culic. IV, 211: Brun., Rec. Ind. Mus. IV, 485; X, 69.
GENOTYPE, *P. lutea*, sp. nov., *loc. cit.*

Mochlostyrax, Dyar and Knab, Jour. N. Yk. Ent. Soc. XIV, 223 (1906).
GENOTYPE, *M. caudelli* Dyar and Knab, by original designation.

Jamesia. Chris., Sci. Mem. Med. Off. India (n. s.) XXV, 12 (1906.
No definite type species quoted. Culex *concolor*, Rob. Desv. and *C. nigripes*, Zeit. are quoted as belonging to it.

Tinolestes, Coq., Proc. Ent. Soc. Wash. VII, 185 (1906).
GENOTYPE, *T. latisquama*, *id.*, sp. nov., *loc. cit.*

Maillotia, Theob., Monog. Culic. IV, 274 (1907).
GENOTYPE, *M. pilifera*, *id.*, sp. nov., *loc. cit.*

Aporoculex, *id.*, *loc. cit.*, 316 (1907).
GENOTYPE, *A. punctipes*, *id.*, sp. nov., *loc. cit.*

Leucomyia, *id.*, *loc. cit.*, 372; pl. ix, ♂ genitalia (1907).
Id., *loc. cit.*, V, 311, tab. spp.
GENOTYPE, *Culex gelidus* Theob., by original designation.

Microculex, *id.*, *loc. cit.*, IV, 461 (1907).
GENOTYPE, *M. argenteoumbrosus*, *id.*, sp. nov., *loc. cit.*

Neomelanoconion, *id.*, *loc. cit.*, IV, 514, ♀ only (1907).[1]
GENOTYPE, *Culex rima* Theob., by original designation.

Pneumaculex, Theob., Monog. Culic. IV, 523 (1907).
Dyar, Proc. Ent. Soc. Wash. VII, No. 1, *nom. nud.*
GENOTYPE, *Culex signifer*, Coq.
Dyar's reference was a *nom. nud.*, and the genus must stand to Theobald.

Aedinus, Lutz in Peryassu, Os Culic. do Bras., 36 (1908).
GENOTYPE, *A. amazonensis*, sp. nov., *loc. cit.*

Gnophodromyia, Theob., Monog. Culic. V, 114 (1910).
Apparently a nomen nudum figuring only in a table of genera, probably a misprint for *Gnophodeomyia*.

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[1] Howard, Dyar and Knab say that Newstead, Dutton and Todd used this name previously (Ann. Trop Med. Paras. I, 31, 1907), with *N. palpus, sp. nov.*, as genotype. Edwards ranks the ♂ of *Neomelanoconion*, as synonymous with *Culiciomyia*.

Rachisoura, Theob., *loc. cit.*, V, 207 (1910).
GENOTYPE, *R. sylvestris*, sp. nov., *loc. cit.*
Mimeteomyia, *id.*, *loc. cit.*, V, 210 (1910).
GENOTYPE, *E. apicotriangulata*, sp. nov., *loc. cit.*
Eumelanomyia, *id.*, *loc. cit.*, V, 240 (1910).
GENOTYPE, *E. inconspicua*, sp. nov., *loc. cit.*
Protomelanoconion, *id.*, *loc. cit.*, V, 462 (1910).
GENOTYPE, *P. fusca*, sp. nov., *loc. cit.*
Thomasina, Newstead and Carter, Ann. Trop. Med. Paras. IV, 553, fig. 1, head, ♂ (1910—11).
GENOTYPE, *Mansonia longipalpis* Newst. and Carter, by original designation.
Diceromyia, Theob., 4th Rep. Wellc. Lab., Vol. B, 151 (1911).
GENOTYPE, *D. africana*, *id.*, *sp. nov.*, *loc. cit.*
Theobaldiomyia, Brun., Rec. Ind. Mus. IV, 462; nom. nov. for *Leucomyia*, Theob., preocc. Braur and Berg., 1892 in Sarcophaginae.
Brun., Rec. Ind. Mus. X, 72 (1912).
Climacura, Howard, Dyar and Knab, Mosq. N. Amer., etc., III, 452 (1915).
GENOTYPE, *Culex melanurus* Coq., by original designation. Ranked as a subgenus by the authors.

Of the synonyms of *Culex* as given by me in my recent "Critical Review," 16 (not counting my *nomina novae*) are accepted as such by Messrs. Howard, Dyar and Knab, whilst 31 others are considered synonymous with *Aedes*, with which they include *Ochlerotatus*, as understood by Edwards, two or three of the remainder of my *Culex* synonyms being split up between *Culex* and *Aedes*.

cantans Mg., Syst. Besch. I, 6, ♀ (1818).
Culex stimulans, Walk., List Dipt. Brit. Mus. I, 4, ♀ (1848).
C. fumipennis, Steph., Zool. Jour. I, 453 (1825).
Coonoor, 6,000 ft.; Madras; North India [*Dr. Price*]. *Types* in Paris Museum, two specimens.

concolor R. Desv., Mem. So. Hist. Nat. Paris IV, 405 (1825).
Theob., Monog. Culic. II, 107, ♂ ♀, fig. 203, ♂ palpus; pl. xxviii, 109 ♂, 110 ♀ both full ins. col.: Giles, Jour. Trop. Med. VII, 368: *id.*, Handb., 2nd ed., 454, ♂ ♀; pl. xvii, 8, *a*, *b*, venation, ♂ ♀: Blanch., Moust., 365, ♂ ♀: Leices., Culic. Malaya, 154, ♂ ♀: Brun., Rec. Ind. Mus. I, 343; IV, 468, notes.

Practically common throughout India in the summer and many parts of the East, occurring in some places during the greater part of the year, Calcutta for instance. Outside of India it is found in Sylhet, ii, iv, v, xi, xii [*Lt.-Col. Hall*]; Upper Burma in August [*Watson*]; Selangor, 28-x-99 [*Butler*]; Kuala Lumpur [*Durham*]; Perak [*Wray* and *Wright*]; Samarang [*Jacobson*]; Phrapatoon, Siam, viii-06 [*Woolley*]; Pampanga, Phil. Is. [*Whit-*

more]; Hongkong; Foo Chow (China), Andaman Is. [*Ray White*]. *Type* location unknown to present author.

fuscanus W., Auss. Zweifl. I, 6 (1828).

Giles, Handbk., etc., 301: Theob., Monog. Culic. II, 167: *id.*, Gen., Ins. Fasc. 26, 30 (quotation incorrect): Giles, Handbk., etc., 2nd ed., 455: Blanch., Moust., 275: Brun., Rec. Ind. Mus. I, 345.

East India; Singapore; Malacca; Sarawak. *Type* (no sex stated), location unstated.

Much doubt attaches to this species (*vide* Brun., Rec. Ind. Mus. I, 345).

fatigans Wied., Auss. Zweifl. I, 10, ♂ ♀ (1828).

Giles, Handbk., 298, 2nd ed., 438; Theob., Monog. Culic. II, 151, ♂ ♀, fig. 234, ♂. wing; fig. 235, ♂ genitalia; fig. 236, wings, map of distribution, p. 155; pl. xxix, 114, ♂, 115, ♀ (both full ins. col.); pl. D, wing scales: list. vars. and locs., p. 156, *et. seq.*; fig. 238, ten variations of wings: Theob., Gen. Ins. Fasc. 26; pl. ii, 2, ♀ (full ins. col.): Giles, Handbk., 2nd ed., 438, ♂ ♀, fig. 45 (var. chars.); list of subspecies, p. 440: Theob., Monog. Culic. IV, pl. xvi, larval characters: Blanch., Moust., 353, ♂ ♀, fig. 230, ♂ ♀ (as *pungens*); 231, ♀; 232, head, ♂ ♀ (as *anxifer*); 233, adult larva, nymph (*pungens*,) 234, head of larva (*pungens*): Leices., Culic. Malaya, 157, ♂ ♀: Brun., Rec. Ind. Mus. I, 344; IV, 468.

Culex aestuans, Wied., Auss. Zweifl. I, 11 (1828).
Culex pallipes, Mg, Syst. Besch. VII, 1 (1838).
Culex anxifer, Coquerel, in Big., Ann. So Ent. Fr. (1858).
Culex skusii, Giles, Handbk., 1st ed., 292 (1900).
Heteronycha dolosa, Arrib., Dipt. Argent., 56 (1891).
Culex panalectoris, Giles, Jour. Bomb. N.H. Soc. XIII, 608 [(1901).
Armigeres panalectoros, *id.*, Handbk., etc., 2nd ed., 386.
Desvoidea panalectros, *id.*, *t.* Theob., Rec. Ind. Mus IV, 5.
Desvoidya panalectros, Blanch., Moust., 266, ♂.
Blanchardiomyia panalectros, Brun., Rec. Ind. Mus. IV, 442.
Culex quasipipiens, Theob., Monog. Culic. II, 136, ♀, fig. 223, head, wing, veins (1901): Giles, Handbk, 2nd ed., 438: Blanch., Moust., 344, ♀: Brun., Rec. Ind. Mus. I, 351.
Culex foochowensis, Theob., Monog. Culic. II, 137, ♂ ♀, figs. 224, 225, var. chars (1901): Blanch., Moust., 344, ♂ ♀ (*fouchowensis*): Brun., Rec. Ind. Mus. I, 345.
Culex reesii, Theob., Monog. Culic. II, 145, ♂ ♀, fig. 232, palpus ♂, thorax ♀, claws ♂ (1901): Giles, Handbk., 2nd ed., 449, ♂ ♀: Blanch., Moust., 361, ♂ ♀: Brun., Rec. Ind. Mus. I, 351.
Culex sericeus, Theob., Monog. Culic. II, 147, ♀, fig. 233, var. chars. (1901): Giles, Handbk., 2nd ed., 452, ♀: Blanch., Moust., 362, ♀: Brun., Rec. Ind. Mus. I, 352; IV, 475.

Culex christophersi, Theob., Monog. Culic. IV, 453, ♂ ♀ (1907).
Culex osakensis, Theob., Monog. Culic. IV, 439, ♂ only (1907).
Culex 5-fasciatus, Dyar and Knab (? *nec* Say), Proc. Ent. Soc. Wash. XI, 34 (1909).
Culex goughii, Theob., U.S. Afr. Dep. Agric., 1st Rep. Vet. Res. 268, ♂ only (1911).

subspecies **luteoannulatus** Theob., Monog. Culic. II, 159 (1901).

? *Culex pungens*, Wied., Auss. Zweifl. I, 9 (1828).
? *Culex macleayi*, Skuse, Pr. Linn. Soc. N.S. Wales, p. 1745 (1896).

The most widely distributed species in the Orient. Records of its occurrence during every month can be found amongst Indian localities. Ceylon (Kurmregalla, Badulla, Balangoda, Keleni Valley), i, iii, xi [*Green*]; Nepal; Moulmein; Manipur; at sea between Calcutta and Rangoon, 22—23-ii-08 [*Annandale*]; Rangoon, 24-xii-04 to 3-i-05, and 9-ii-06 [*Brunetti*]; Dindings [*Wray*]; Perak [*Wright*]; Penang, 3—8 viii-06 [*Brunetti*]; Singapore, 4-xi-99 and vii [*Hanitsch, Biro*]; 21-vi-06 [*Brunetti*]; Malay Peninsula, widely distributed and common near houses [*Leicester*]; Phrapatoon, Siam, 10—18-i; 19-iii; 30-xii-07; viii and xi-06 [*Dr. Woolley*]; Batavia, 27-vi; 9-vii-06 [*Brunetti*]; Soerabaya, 16—25-vii-96 [*Brunetti*]; Papua (Friedrich Wilhelmshafen and Stephansort). [*Biro*]; Sarawak; Hong Kong, 8-i-00; vii [*Ford*]; Foochow [*Rennie*]; Shaohyling [*Cornford*]; Shanghai, 16—25-vii-06: swarming in ditch; Hankow, 22—26-iv-06; Manila, 10—16-iii-06 [all three *Brunetti*]; Seistan; E. Persia [*Annandale* and *Kemp*]. It also occurs in Japan, East Africa, Natal, Zanzibar, Mombasa, the Soudan, Egypt, British Central Africa, Senegambia, Mauritius, the Seychelles, Australia, Fiji and the Southern part of N. America, Central and S. America, and the West Indies. *Types* of *fatigans, aestuans* and *pungens* in Wiedemann coll.; of *macleayi* in Sydney Museum; of *panalectros* in British Museum. No type specimen set up of *skusei*; a typical specimen in British Museum.

sitiens Wied. Auss. Zweifl. I, 542, ♀ (1828).
Edws., Bull. Ent. Res. IV, 232.

Culex impellens, Walk. (*nec* Theob.), Proc. Linn. So. Lond. IV, 91, ♀ (1860).
C. annulirostris, Skuse, Proc. Linn. So. N.S. Wales (2) III, 1737 (1889).
C. microannulatus, Theob., Monog. Culic. I, 353, ♂ ♀; pl. xviii, 69, ♀, full ins. col.; fig. 118 *b*, head, *d*, fore ungues ♂ (1901): Blanch., Moust., 292, ♂ ♀: Leices., Culic. Malaya, 140, ♂ ♀: Brun., Rec. Ind. Mus. I, 349; IV, 472.
C. gnophodes, Theob., Monog. Culic. III, 163, ♀ (1903). Leices., Culic. Malaya, 145 (Theob., descr. copied).
C. somaliensis, Nev.-Lemaire, Arch. Parasit. X, 254 (1906).
C. ronaldi, Charm., Ann. Trop. Med. II, 259 (1908).

C. salus Theob., Third Rep. Wellcome Lab., 256 (1909).

Apparently a very widely distributed species throughout the East, common nearly everywhere.

Sylhet, i, ii, iv, v, xi, xii; Calcutta, July to November, common; N.W. Provinces, India, common [*Giles*]; Shahjahanpur, xii [*Giles*]; Mukerian; Hoshiarpur [*Dr. Datta*]; Purnea, Bengal, viii; between Bolpore and Rampore Haut, Bengal, viii; in railway carriage [*Paiva*]; Lake Chilka, Orissa, viii; Gopkuda I.; Trincomalee and Hakgala, Ceylon, 24-viii—, 9-ix-07, and Peradeniya [all three *Green*]; Singapore [*Dr. Finlayson*]; Dindings; Straits, xi; Makessar; Manila, Cavite and Pangasinan (all three Phil. Is.) [*Banks*, *Stiff* and *Chamberlain* respectively]. It also occurs in Mauritius. *Type* (*sitiens*), said to be in the Copenhagen Museum: that of *annulirostris* at Sydney Museum; of *microannulatus*, *impeltens*, *salus* and *gnophodes* in the British Museum, of *ronaldi* at the Liverpool School of Tropical Medicine.

vagans Wied., Auss. Zweifl. I, 545, ♀ (1828).

Theob., Monog. Culic. I, 411, ♀; fig. 146, wing, scutellum: *id.*, *loc. cit.*, IV, 14, ♂; V, 347, ♂: Giles, Handbk., etc., 279; 2nd ed., 414, ♀; pl. xvi, 14, venation ♀: *id.*, Jour. Trop. Med. VII, 368: Blanch., Moust., 304, ♀: Brun., Rec. Ind. Mus. I, 353; IV, 476.

Madras city, 31-x-08 [*Hodgart*]; Hongkong, x; Shanghai [*Lindesay*]; Pampanga [*Whitmore*]; Foochow [*t. Blanch.*].

Type in Dr. Trentepohl's collection.

nigripes Zett., Ins. Lapp., 807 (1838).

Ficalbi, Bull. So. Ent. Ital., 292 (1896): Theob., Monog. Culic. II, 93, ♂ ♀; fig. 194, wing, etc.; fig. 260 (p. 219), map of distribution: Brun., Rec. Ind. Mus. I, 350.

? *impiger*, Walk., List. Dipt. Brit. Mus. I, 6, ♀ (1848).

? *implacabilis*, *id.*, *loc. cit.*, I, 7, ♀ (1848).

Deosai Plateau, between Kashmir and Shardo, 13,000 ft. [*Dr. Neve*]. A circumpolar species. *Type* (*nigripes*) in Paris Museum.

rubrithorax Macq., Dipt. Exot. Supp. IV, 9, ♀ (1850).

Theob., Monog. Culic. I, 416, ♀; fig. 150, head, thorax, apex of abdomen: Giles, Handbk., etc., 2nd ed., 412, ♀: *id.*, Jour. Trop. Med. VII, 368: Skuse, Proc. Linn. So. N.S. Wales, p. 1735 (1896): Brun., Rec. Ind. Mus. I, 352.

Pampanga, Ph. Is. [*Whitmore*]. *Type* in Paris Museum. Described originally from Australia.

aureostriatus Dol., Nat., Tijd. Ned. Ind. XIV, 385, ♀; pl. vi, 1 (1857).

Giles, Handbk., 280: Theob., Monog. Culic. I, 387, ♀: Blanch., Moust., 310, ♀: Brun., Rec. Ind. Mus. I, 355; IV, 467.

Amboina. Blanchard says it occurs in Tokio. *Type*, location unknown to present author.

longipalpis Wulp, Mid-Sum. Dipt., 9, pl. i, 3, head (1892).
Giles, Handbk., etc., 249; 2nd ed., 423, ♀: Blanch., Moust., 318, ♀: Brun., Rec. Ind. Mus. IV, 471.
Soeroelangoen, Sumatra. *Type*, location unknown to present author.

mimeticus Noe, Bull. Ent. So. Ital. XXXI, 240 (1899).
Giles, Handbk., etc., 202; 2nd ed., 389; pl. xv, 16, wing, ♀; 17, palpi and proboscis ♂; 18, claws ♂: Theob., Monog. Culic. I, 329, ♀; pl. xvi, 63, ♀, full ins. col.: Blanch., Moust. 271, ♂ ♀: Leices., Culic. Malaya, 139, ♂ ♀: Brun., Rec. Ind. Mus. I, 349; IV, 472.
? *hyrcanus*, Pallas, Reisen Russ. Reich. (1871), "near Caspian Sea."
Theog., 8000 ft., 2-v-07 [*Annandale*]; Punjab, 6000 ft., iii [*Lindesay*]; Canara District [*Aitken*]; Nilgiri Hills [*Giles*]; Lushai Hills, 1-vi-04 [*Macleod*]; Thaumaspur, Nepal, 18—20-ii-08; Malacca [*t. Blanch.*]; Peradeniya, 17-ix-07 [*Green*]; Kuala Lumpur [*Durham*]; Perak [*Wright*]. Occurs also in Italy, Cyprus, Macedonia and Palestine. See note under *C. mimulus*, Edw. *Type* in Rome University Museum.

tigripes Grandpré and Charmay, Planters Gazette Press (1900).[1]
Giles, Handb., 2nd ed., 407, ♂ ♀; pl. xvi, 4, wing, ♂ ♀, head ♂, thorax var.: *id.*, Jour. Trop. Med. VII, 368: Theob., Monog. Culic. III, figs. 120—122, larva, pupa, diagrams: Brun., Rec. Ind. Mus. I, 352; IV, 475: Edw., Bull. Ent. Res. II, 261.
maculicrura, Theob., Monog. Culic. II, 34, ♂ ♀; pl. xxii, 85, ♀, full ins. col. (1901).
Sylhet, ii, iv, v to xii [*Lt.-Col. Hall*]; Kurseong, 4-viii-08; Damukdia Ghat (Riv. Ganges, E. Bengal), vii; Calcutta, viii-08; xii, 1905: Port Canning, xii; Mandalay, 11-iii-08 [*Annandale*]; Manipur, viii [*Gourlay*]; Kirindi, 20-xi-08; Weligama, 3-i-08; Dondra, 28-iv-08; Mandulsima, 14-xii-08 (all four, Ceylon); Dindings, Straits, xii; Pampanga, Ph. Is. [*Whitmore*]. Also occurs in West Africa, Natal, Mauritius, Queensland.
Type, location unknown to present author. Edwards has suggested that this species may be identical with *concolor*, R. Desv.

tritaeniorhynchus Giles, Jour. Bomb. Nat. Hist. So. XIII, 606 (provis. descr.) (May 1901).
Giles, Entom. XXXIV, 192 (July 1901): *id.*, Handbk., 2nd ed., 401, ♂ ♀: Theob., Monog. Culic. I, 364, ♂ ♀; fig. 124, wing, ♂ ♀: Blanch., Moust., 294, ♂ ♀: Brun., Rec. Ind. Mus. I, 355: Edw., Bull. Ent. Res. IV, 233; VII, 224.
Culex sitiens, Theob. (*nec* Wied.), Monog. Culic. I, 360, fig. 121, wing, proboscis (Nov. 1901): Giles, Handbk., 2nd ed., 400,

[1] Edwards (Bull. Ent. Res. II, 261) gives as reference "Grandpré, Les Moustiques, 1900." Presumably he refers to Blanchard's work.

♀: Blanch., Moust., 293, ♀: Leices., Culic. Malaya, 143, ♂ ♀: Brun., Rec. Ind. Mus. I, 352; IV, 475.

Culex annulus, Theob., Monog. Culic. I, 358, ♀ (1901).

Giles, Handbk., 2nd ed., 405, ♀: Blanch., Moust., 293, ♀: Leices., Culic. Malaya, 144 (copies Theob.'s descr. of ♀).

Culex vishnui, Theob., Monog. Culic. I, 355, ♂ only, (♀ = *vishnui*, Theob., *vera*), fig. 119, claws, wing tips; 120*a*, forms of abdomen (♂ only), claws, ♂ (1901): Giles, Handbk., 2nd ed., 399, ♂; pl. xvi, 5*a*, abdomen vars., 5*b*, fore tarsal claws, ♂: Theob., Monog. Culic. IV, 387, ♂ only; fig. 163, genitalia ♂: Blanch., Moust., 293, ♂ only: Brun., Rec. Ind. Mus. I, 354; IV, 476.

Culex biroi, Theob., Ann. Mus. Hung. III, 82, ♂ ♀; pl. i, wing, ♂ ♀: *Id.*, Monog. Culic. IV, 390, ♂ ♀; fig. 165, wing ♂; 164, wing ♀.

Sambalpur (Cent. Prov., India), 26-x-1900 [*Murphy*]; Calcutta, viii, ix; Bombay [*Biro*]; Madras, xi, xii [*Cornwall*]; Dacca; Travancore, *type* [*James*]; Quilon, 27-vii-1900 and ii [*James*]; Ceylon, xi; 27-xii-99 [*Bartholomew*]; Dindings (Straits), x, xi, xii; Malaysia; Malacca; Sumatra; Celebes [all three *t. Blanchard*]; Tai-Po; Pokfulam; Hongkong; Lamma, Philippines [*t. Ludlow*]. *Types* of *tritaeniorhynchus* and *vishnui* ♂ in British Museum; of *biroi* in Hungarian Museum; of *annulus* in Dr. Rees collection.

vishnui Theob., Monog. Culic. I, 355, ♀ only (the ♂ = *tritaeniorhynchus*, Giles); figs. 119, 120 var. chars. (♀ only); pl. xvii, 66, ♀, full ins. col. (1901).

Id., *loc. cit.*, IV, fig. 162, wing ♀; pl. v, wing scales, ♀: Blanch., Moust., 293 (♀ only): Leices., Culic. Malaya, 141 (♀ only): Brun., Rec. Ind. Mus. I, 354; IV, 576: Edw., Bull. Ent. Res. IV, 233; VII, 225.

impellens, Theob. (*nec* Walk.), Monog. Culic. I, 362, ♀; fig. 122, head; 123, wing; *loc. cit.*, IV, 15 (long list locs.): Giles, Handbk., 2nd ed., 399, ♀ only; pl. xvi, 3*a* head: Blanch., Moust., 294, ♀: Leices., Culic. Malaya, 142 (Theob.'s descr. copied): Brun., Rec. Ind. Mus. I, 347: IV, 470.

Culex perplexus, Leices., Culic. Malaya, 150, ♂ ♀ (1908): Brun., Rec. Ind. Mus. IV, 473.

? *C. microtaeniatus*, Theob., Tijd. *v.* Ent. LIV, 236 (1911).

? *C. pseudoinfula*, Theob., *loc. cit.*. p. 237 (1911).

? *C. parvus*, Taylor, Bull. N. Terr. Austral., 1*a*, p. 27 (1912).

Very generally distributed through the East; widely throughout India, as far north as Nepal and Sylhet, i, ii [*Hall*]. Outside of India it is recorded as follows; Ceylon, xi and 27-xii-99 [*Bartholemew*]; Batticolora, Ceylon, iv, [*Green*]; Moulmein, ii; Mandalay, 11, 12-iii-08 [*Annandale*]; Chittagong, 26-vii-08 [*Lt.-Col. Hall*]; Rangoon, 24-xii-04 to 3-i-05 [*Brunetti*]; Kuala Lumpur, v [*Durham, Leicester*]; Perak [*Wray, Wright*]; Makessar [*t. Walker*]; Batavia, 27-vi-06 to 9-vii-06 [*Brunetti*]; Pampanga [*Whitmore*]. Also taken on board ship 5 miles off Aleppey, Mala-

bar Coast, 4-v-08 [*Paiva*]. *Type* of *vishnui* ♀ and of *perplexus* ♂ ♀ in British Museum.

annulioris Theob., Liver. Sch. Trop. Med. Mem. V, App. (1901). *Id.*, Monog. Culic. I, 371, ♀ (1901): Brun., Rec. Ind. Mus. IV, 466: Edw., Bull. Ent. Res. II, 259.

Phillipines. Described from a single ♀ from Mashonaland. *Type* in British Museum.

hirsutum Theob., Monog. Culic. I, 392, ♂ ♀; pl. xx, 80, ♀ full ins. col., fig. 137, palpus ♂, apex ♂ antenna (1901).

Brun., Rec. Ind. Mus. I, 347.

Philippines. *Types* in British Museum.

gelidus Theob., Monog. Culic. II, 20, ♀; pl. xxiv, 93, ♀, full ins. col.; fig. 158, thorax and hind tarsus (*Culex*) (1901).

Culex gelidus, Giles, Handbk., 2nd ed, 421, ♀: Blanch., Moust., 316, ♀: Brun., Rec. Ind. Mus. I, 346.

Leucomyia gelida, Theob., Monog. Culic. IV, 372: Leices., Culic. Malaya, 147, ♂ ♀.

Theobaldiomyia gelidus (lapsus) Brun., Rec. Ind. Mus. IV, 462.

Calcutta, August, 6-x-04 [*Brunetti*]; Purnea, Bengal, 6-viii-07, ix, x [*Paiva*]; Dacca; Rajshahi, Bengal, 1—6-ii-07; Madras town, 30—31-x-08 [*Hodgart*]; Peradeniya, vii, ix; Maskeliya, iv; Kelani Valley [both Ceylon and *Green*]; Travancore and Cochin States, xi-08 [both *Annandale*]; Selangor [*Butler*]; Rangoon, 25-ii-08: Dindings (Straits) in November; Perak; Sarawak, xi [*Butler*]; Bayembang, Phil. Is. [*Chamberlain*].

var. **bipunctata** Theob., Monog. Culic. IV, 374, ♂ (*Leucomyia*) (1907).

India [*Major Aldrich*]; Sarawak [*Barker*].

var. **cuneata** Theob., Monog. Culic. II, 22, ♀, fig. 159, var. chars. (*Culex*) (1901).

Culex gelidus cuneatus, Giles, Jour. Trop. Med. VII, 368: Brun., Rec. Ind. Mus. I, 346.

Sylhet, v [*Lt.-Col. Hall*]; Calcutta, July to December, common in houses, at light, in railway carriages and in the open and on plants, [*Annandale, Brunetti*]; Katihar; Bhogaon, ix, x; Purnea, viii, x [*Paiva*]; near Puri, 23-x-08, at light; Madras, 23 and 30-x-08; Travancore, 5 and 19-xi 08 [*Annandale*]; Malabar, 4-xi-08 [*Annandale*]; Quilon, vii [*James*]; Ceylon [*Green*]; Taipang, Perak [*Wray*]; Manila [*Banks*]; Pampanga, Phil. Is. [*Whitmore*]; Pangasinan, Phil. Is.

Type, location unknown to present author.

univittatus Theob., Monog. Culic. II, 29, ♂ ♀; fig. 161, head, leg, abdomen; pl. xxii, 86, ♀, full ins. col. (1901).

Giles, Handbk., 2nd ed., 428, ♂ ♀ (*univitatus*, lapsus): Blanch., Moust., 321, ♀: Brun., Rec. Ind. Mus. I, 353.

Singapore, vii, ix [*Hainitsch*]. Occurs in Africa. *Type* in British Museum.

quasiunivittatus Theob., Monog. Culic. II, 32, ♀; fig. 164, head (1901).
Brun., Rec. Ind. Mus. I, 351.
Pampanga [*Whitmore*]. Described from single ♀ from Mashonaland. *Type* in British Museum.

hirsuteron Theob., Monog. Culic. II, 98; fig. 196, claws ♂; 197 wing, ♀ (1901).
Id., Gen. Ins, Fasc. 26, 27: Giles, Handbk., 2nd ed., 451 (*hirsuteros*): *id.*, Jour. Trop. Med. VII, 368 (*hirsuteros*): Brun., Rec. Ind. Mus. I, 347.
Pampanga [*t. Banks*]. Said to occur in Virginia, U.S.A., which is doubted by Banks. *Type* in British Museum.

tipuliformis Theob., Monog. Culic. II, 327, ♀; fig. 306, wing, leg, abdomen (1901).
Giles, Handbk., 2nd ed., 443, ♂: Blanch., Moust., 363, ♀: Brun., Rec. Ind. Mus. I, 353.
Bakloh (N.W. India), 5000 ft., iii [*Lindesay*]. *Type* in British Museum.

fragilis Ludlow, Jour. N.Yk. Ent. So. XI, 142 (1903).
Theob., Monog. Culic. IV, 424, ♂ ♀.
Oras (Samar, Phil. Is.), 6-viii [*t. Ludlow*]. *Type* in Army Medical Museum, Washington.

alis Theob., Monog. Culic. III, 167, ♂ ♀ (1903).
Philippines [*t. Ludlow*]. Also occurs on Christmas Island. *Type* in British Museum.

sinensis Theob., Monog. Culic. III, 180, ♀ (*C. gelidus*, var. *sinensis*) (1903).
Culex sinensis, Edw., Bull. Ent. Res. IV, 231.
Leucomyia sinensis, Theob., Monog. Culic. V, 313 (1910): *id.*, Rec. Ind. Mus. IV, 20.
Theobaldiomyia sinensis, Brun., Rec. Ind. Mus. IV, 463.
Culex sepositus, Leices., Culic. Malaya. 152, ♀ (1908).
Taeniorhynchus tenax, Leices. (*nec* Theob.), Culic. Malaya, 167, ♀ (1908).
Balighai, near Puri, 23-x-08, at light [*Annandale*]; Kuala Lumpur [*Leicester*]; Shaohyling, China [*Cornford*]. *Types* of *sinensis* and *tenax* in British Museum; that of *sepositus*, lost.

halifaxi Theob., Monog. Culic. III, 231, ♀ (1903).
Id., *loc. cit.*, V, 350: Brun., Rec. Ind. Mus. IV, 470: Edw., Bull. Ent. Res. IV, 234.
Culex multimaculosus. Leices., Culic. Malaya, 155, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 473.
Dindings, Strait Settlements, xii. *Type* of *halifaxi*, a unique ♀, in British Museum; of *multimaculosus*, in Leicester coll.

whitmorei Giles, Jour. Trop. Med. VII, 367 (*Taeniorhynchus*) (1904).
Culex whitmorei, Edw., Bull. Ent. Res. IV, 232; VII, 225.
Taeniorhynchus whitmorei, Theob., Monog. Culic. V, 431: Brun., Rec. Ind. Mus. IV, 480.
Taeniorhynchus argenteus, Ludlow, Can. Ent. XXXVII, 98, ♀ (1905): Theob., Monog. Culic. IV, 487, ♀ (copies Miss Ludlow's descr.): *loc. cit.*, V, 426, fig. 191, wing.
Theobaldiomyia argentea, Brun., Rec. Ind. Mus. IV, 462.
Leucomyia plegipennis, Theob., Monog. Culic. IV, 375 (1907).
Culex albus, Leices., Culic. Malaya, 148, ♀ (1908).
Culex loricatus, Leices., *loc. cit.*, 151, ♀ (1908).
Angeles, Pampanga, ix [*Whitmore*]; Kuala Lumpur. *Types* of *whitmorei*, *plegipennis* and *loricatus*, in British Museum; of *argenteus* in Army Medical Museum, Washington; of *albus* in Leicester collection.

trimaculatus Theob., Ann. Mus. Hung. III, 86, ♀; fig. 5, thoracic marks (1905).
Id., Monog. Culic. IV, 427, ♀; fig. 187, thorax, ♀.
Bombay [*Biro*]. *Type*, a unique ♀, in Hungarian Museum.

annulatus Theob., Ann. Mus. Hung. III, 98, ♂, fig. 10, proboscis apex, scales (*Trichopronomyia*) (1905).
Id., Monog. Culic. IV, 479, ♂; fig. 213, var. chars.; 214, wing, ♂.
Friedrich Wilhelmshafen, Papua [*Biro*]. *Type* in Hungarian Museum.

ornatus Theob., Ann. Mus. Hung. III, 100, ♀ (*Melanoconion*) (1905).
Id., Monog. Culic. IV, 508, ♀; fig. 231, wing, ♀.
Friedrich Wilhelmshafen, Papua, xii, 1900 [*Biro*]. *Type* in Hungarian Museum, a unique specimen.

pallidiceps Theob., Ann. Mus. Hung. III, 101, ♂ (*Melanoconion*) (1905).
Id., Monog. Culic. IV, 509, ♂.
Friedrich Wilhelmshafen, Papua, xii-1900 [*Biro*]. *Type* in Hungarian Museum.

lutea Ludl., Can. Ent. XXXVII, 96, ♂ (*Popea*) (1905).
Id., *loc. cit.*, XLII, 193, ♀ (1910).
Pampanga, Phil. Is. [*Whitmore*]. *Type* in Army Medical Museum, Washington.

macropus Blanch., Comp. Rend. LIII, 1045. nom. nov. for *C. longipes*, Theob., preocc. (1905).
Culex macropus, Blanch., Moust., 327.
Culex longipes, Theob., Monog. Culic. II, 68, ♀ (1901): Giles, Handbk., 2nd ed., 468, ♀.
Singapore, 4-ix-99, *type* [*Hanitsch*], and 27-vii. *Type* of *longipes* in British Museum.

annuliferus Ludl., Jour. N.Yk. Ent. Soc. XI, 141 (*annulifera*) (1903).
Theob., Monog. Culic. IV, 388, ♂ ♀: Brun., Rec. Ind. Mus. I, 343.
Culex ludlowi, Blanch., Moust., 630, nom. nov. for *annuliferus*, Ludl. preocc. Blanch., 1852: Brun., Rec. Ind. Mus. IV, 471.
Bayembang. Phil. Is. [*Chamberlain*]; Mangarin and Dagupan, ii to iv (both Phil. Is.). *Type* in Army Medical Museum, Washington.

rizali Banks, Phil. Jour. Sci. I, 999, ♀ (1906).
Theob., Monog. Culic. V, 391: Brun., Rec. Ind. Mus. IV, 474.
Siya Siya Mt. of Canlaon Volcano, Negros I. (Phil. Is.), vi [*Banks*]. *Type* in Entomological collection (No. 6083), Bureau of Science, Manila.

fuscocephalus Theob., Monog. Culic. IV, 420 ♀ (1907).
Edw., Bull. Ent. Res. IV, 234; VII, 225.
C. taytayensis, Banks, Phil. Jour. Sci. IV, 545, ♂ ♀ (1910).
Brun., Rec. Ind. Mus. IV, 475.
C. luteola, Theob., Monog. Culic. V, 378, ♀ (1910).
Brun., Rec. Ind. Mus. IV, 471.
C. uniformis, Leices., Culic. Malaya, 159, ♀ (1908): Brun., Rec. Ind. Mus. IV, 476.
C. minor, Theob., Rec. Ind. Mus. II, 298, ♂ ♀ (1901): Theob., *loc. cit.*, IV, pl. i, wing: *id.*, Monog. Culic. V, 363, ♂ ♀; fig. 150, wing: Brun., Rec. Ind. Mus. IV, 473.
Sylhet [*Hall*]; Calcutta, xii [*Annandale*]; Pallode, Travancore, 15-xi-08 [*Annandale*]; Peradeniya, iii, ix [*Green*], x, 1900; Hakgala, Ceylon, 5-xi-07 [*Green*]; Lungleh, Lushai Hills, vi, vii [*Macleod*]; Rizal, Phil. Is. [*Banks*]; Batu Gajah, Malaysia. *Type* of *fuscocephalus* and of *luteola*, in British Museum; of *taytayensis* in Bureau of Science, Manila, Cat. No. 11,459; of *minor* in Indian Museum; that of *uniformis*, probably lost, not in Leicester collection.

nigricephalus Leices., Culic. Malaya, 149, ♂ ♀ (*nigricephala*) (1908).
Brun., Rec. Ind. Mus. IV, 473.
Batu Gajah (Malaysia), [*Dr. Daniels*]. *Type* probably lost, not in Leicester collection.

auratus Leices., *loc. cit.*, 153, ♀ (1908).
Brun., Rec. Ind. Mus. IV, 467.
Malayasia. *Type* probably lost, not in Leicester's collection.

graminis Leices., Culic. Malaya, 158, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 470.
Malaysia. *Type* probably lost, not in Leicester's collection.

minimus Leices., Culic. Malaya, 160, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 472.
Kuala Lumpur. *Type* in Leicester collection.

pettigrewii Theob., Rec. Ind. Mus. IV, 15, ♀ (1910).
Theob., Monog. Culic. V, 351, ♀.
Ukhrul, Manipur, viii-08 [*Pettigrew*].
Type, a unique ♀, in Indian Museum.

japonicus, var. **ceylonicus** Theob., Monog. Culic. V, 391 (*ceylonica*) (1910).
Brun., Rec. Ind. Mus. I, 348; IV, 471.
[**C. japonicus** typical form], Theob., Monog. Culic. I, 385, ♀ (1901), and III, 158 (1903).
Peradeniya, vi and x [*Green*]; a single ♀. *Types* of *japonicus* (typical form), and of *japonicus*, var. *ceylonicus* (presumably) in British Museum. The typical form is apparently not found in the East.

aureopunctis Ludlow, Can. Ent. XLII, 195, ♀ (1910).
Cottabato, Mindanao.
Type in Army Medical Museum, Washington.

argentinotus Banks, Phil. Jour. Sci. IV, 547, ♂ ♀ (1910).
Rizal, Phil. Is., 13—16-v-09 [*Banks*]. *Types* ♂ ♀ in Entomological collection, Cat. No. 11,460, Bureau of Science, Manila.

palawanensis Ludl., Psy. XXI, 30 (*Popea*) (1914).
Palawan, Phil. Is.
Type, location unknown to present author.

mimulus Edw., Bull. Ent. Res. V, 284 (1914—1915).
Malay States; India; Ceylon. Edwards thinks that probably all specimens hitherto recorded from the Orient as *mimeticus*, Noe, are this species, and those in the British Museum from Hong Kong, North India, Palestine and Cyprus are true *mimeticus*.

nilgiricus Edw., Bull. Ent. Res. VI, 358, ♂ ♀, fig. 1, ♂ genit. pt. (1915—16)
Utakamand (? Ootacamund), Nilgiri Hills, Madras Presid., 7500 ft., 24—31-xii-13 [*T. B. Fletcher*].
Types in British Museum, presented by Agric. Instit., Pusa.

Culex, spp. *unrecognisable*.

molestus W., Dipt. Exot. I, 39 (1821).
Id., Auss. Zweifl. I, 542: Giles, Handbk., 341, 2nd ed., 470.
? *C. filipes*, Walk.
Sumatra. *Type* (defective) in Dr. Trentepohl's collection (Vienna Museum).

luridus Dol., Nat. Tijd. Ned. Ind. XIV, 384; pl. v, 1 (1857).
Giles, Handbk., 341, 2nd ed., 469: Brun., Rec. Ind. Mus. I, 355.
? *inflictus*, Theob., Monog. Culic. II, 115 (1901).
Gombong, Mid-Java [*t. Doleschall*].
Type, location unknown to present author.

setulosus Dol., Nat. Tijd. Ned. Ind. XIV, 384; pl. v, 4 (1857).
Giles, Handbk., 335, 2nd ed., 470: Brun., Rec. Ind. Mus. I, 355.
Mid-Java [*t. Doleschall*]. *Type* in Vienna Museum.

filipes Walk., Proc. Linn. So. Lond. V, 229, ♀ (1861).
Giles, Handbk., 343.
? = molestus, W.
Dorey, Papua. *Type* in British Museum, unrecognisable.

ventralis Walk. II, Proc. Linn. So. Lond. VIII, 103, ♀ (1865).
Brun., Rec. Ind. Mus. I, 356.
Papua [*t. Walker*]. The second species of this name by Walker in *Culex*; the first is synonymous with *Armigeres obturbans*, Walk. *Type* in British Museum.

doleschalli Giles, Handbk., 1st ed., 338 (1900): *nom. nov.* for *cingulatus*, Dol.
Brun., Rec. Ind. Mus. I, 354.
Culex cingulatus, Dol., Nat. Tijd. Ned. Ind. X, 405; pl. vii, 2; preocc., Fab., 1805 for a Brazilian species.
Ambarawa, Java, common all the year round.
Type, location unknown to present author.

Micraedes, Coq.

Proc. Ent. Soc. Wash. VII, 185 (1906).
GENOTYPE, *M. bisulcatus* Coq., by original designation.
Acallcomyia, Leices., Culic. Malaya, 194 (1908).
GENOTYPE, *A. obscura* Leices., by original designation.

malayi Leices., Culic. Malaya, 184, ♀ (*Aedes*) (1908).
Brun., Rec. Ind. Mus. IV, 490.
Micraedes malayi, Edw., Bull. Ent. Res. VII, 228.
Aioretomyia aedes, Leices., Culic. Malaya, 189 (1908).
Kuala Lumpur. *Type* in Leicester coll.

obscurus Leices., Culic. Malaya, 194, ♂ ♀ (*Acallcomyia obscurus*) (1908).
Micraedes obscurus, Edw., Bull. Ent. Res. IV, 237.
Malaysia. *Type* in Leicester coll.

Cyathomyia, de Meij.

Ann. Jard. Bot. Buitenzorg, Ser. 2, Supp. III, 921 (1910).
GENOTYPE, *C. jenseni* Meij., by original designation.

brevipalpis Giles, Handb., 2nd ed., 384, ♂ ♀; pl. xiv, 17—19, wings; 20, head ♂ (*Stegomyia*) (1902).
Culex brevipalpis, Theob., Monog. Culic. III, 146, ♂ ♀; V, 607, App.

Stegomyia brevipalpis, Blanch., Moust., 264, ♂ ♀ : Brun., Rec. Ind. Mus. I, 329 ; IV, 445.
Cyathomyia brevipalpis, Edw., Bull. Ent. Res. IV, 237.
Melanoconion uniformis, Leices., Culic. Malaya, 136, ♂ ♀ : Brun., Rec. Ind. Mus. IV, 484.
Shahjahanpore (N.W. India). *Types* of *brevipalpis* in British Museum ; of *uniformis* in Leicester coll.

Theobaldia, Nev. Lemaire.

Comp. Rend. Soc. Biol. Paris LIV, 1331 (1902).
Theob., Monog. Culic. III, 148 ; pl. x, wing scales, var. spp. ; IV, 275, note on name ; V, 270, tab. spp. : *id.*, Gen., Ins. Fasc., 26, 23 : Edw., Bull. Ent. Res. II, 251 : Brun., Rec. Ind. Mus. I, 339 ; IV, 459, note ; X, 72.
GENOTYPE, *Culex annulatus* Schrk.
Theobaldinella, Blanch., Moust., 390, nom. nov. (generic chars. given), on assumption of preoccupation in Mollusca by *Theobaldius*, Nevike : Brun., Rec. Ind. Mus. X, 72.
Culiseta, Felt. N.Yk. State Mus. Bull., 79, App., 391*e* (1904).
GENOTYPE, *Culex absobrinus* Felt., by original designation.
Pseudotheobaldia, Theob., Monog. Culic. IV, 271 (1907) : Brun., Rec. Ind. Mus. IV, 478 : X, 70.
GENOTYPE, *P. niveitaeniata* Theob., Monog. Culic. IV, 271, sp. nov.

annulata Schrk., Beitr. z. Naturg., 97 (*Culex*) (1776).
Culex annulatus, F., Ent. Syst. IV, 400 : Meig. Syst. Besch. I, 3 : Macq., Hist. Nat. Dipt. I, 35 : Sch., F. Austr. II, 626 : Zett., Dipt. Scand. IX, 3640 : Wulp., Dipt. Neerl., 325 : Theob., Monog. Culic. I, 331, ♂ ♀, fig. 108, abd. segments, claws, ♂ ♀, palpus, ♂ ; pl. xv, 58, full ins. col. : Giles, Handbk., etc., 2nd ed., 391 ; pl. xv, abd. segments, claws, ♂ ♀, wing ♀, head ♂, genitalia ♂ : Blanch., Moust., 280, ♂ ♀ : fig. 206, claws and genitalia, 207 adult larva.
Theobaldia annulata, Theob., Gen. Ins. Fasc. 26 ; pl. i, 12, ♀ full ins. col. : Brun., Rec. Ind. Mus. I, 339 ; IV, 459.
Culex variegatus, Schrk., Enum. Ins. Austr., 482 (1781).
Culex affinis, Steph., Zool. Jour. No. IV (1825).
Bakloh, Punjab, 5000 ft., xi [*Lindesay*] ; also recorded from Brianon, France, 4000 ft., and from Durango State, Mexico, 8000 ft. *Type*, Prof. Bezzi informs me the *type* of *annulata*, Schrk., is no longer in existence. That of *affinis* is in the Hope collection at Oxford University, that of *variegatus* probably lost or unrecognizable

glaphyroptera Sch., F. Austr. II, 628 (*Culex*) (1864).

Culex glaphyropterus, Giles, Handbk., 216 (Sch.'s descr. copied).
Theobaldia glaphyroptera, Edw., Bull. Ent. Res. IV, 237.
Pseudotheobaldia niveitaeniata, Theob., Monog. Culic. IV, 272, fig. 87, ♂ genitalia, 88, wing, ♂ (1907): Brun , Rec. Ind. Mus. IV, 478.

Dehra Dun, ii, iii [*Thompson*]; Theog., Simla Distr., 2-v-07 [*Annandale*]. *Type* of *glaphyroptera*, location unknown to me; that of *niveitaeniata* in British Museum.

spathipalpis Rond., Bull. Soc. Ent. Ital. IV, 31 (*Culex*) (1872).
Culex spathipalpis, Theob., Monog. Culic. I, 339, ♂ ♀; III, 154, ♀; pl. x, wing scales; IV, 276 (larva descr.): Giles, Handbk., etc., 2nd ed., 392, ♂ ♀; pl. xv, 23, wing ♀, 24, head ♂, 25, genitalia, ♂: Ficalbi, Bull. Soc. Ent. Italy XXI, 86; XXVIII, 242; pl. ii, 8, 9; pl. iii, 7, 12; pl. iv, 18, 21, 22; pl. v, 31, 34; XXXI, 194, figs. 72—75, 146: Blanch., Moust., 283, ♂ ♀; fig. 209, claws and genitalia.
Theobaldia spathipalpis, Brun., Rec. Ind. Mus. I, 340; IV, 459, notes.
Culex serratipes, Beck., Mitt. Zool. Mus. Berl. IV, 78 (1908).

Naini Tal, 7000 ft. Occurs also in Italy, Palestine, Cyprus, Madeira, Teneriffe, Algeria, Gibraltar, Malta, the Transvaal, and Cape Colony. *Type* in Florence Museum.

In Edwards' latest paper he suggests sinking this species as synonymous with (*Culex*) *longiareolatus*, Macq., but a comparison with the *type* does not appear to have been made and until such is the case the present name may as well stand. Mr. James Waterston records the species under Macquart's name as common in Macedonia.

pagei Ludl., Psyche XVIII, 128, ♀ (1911).
Theob., Monog. Culic. V, 618.
Fort Pikit, Mindanao (Phil. Is.).
Type (presumably) in Army Medical Museum, Washington.

Ficalbia, Theob.

Monog. Culic. III, 296 (1903).

Theob., *loc. cit.*, IV, 577, tab. spp.; V, 541, tab. spp.: Gen. Ins., Fasc. 26, 36: Blanch., Moust., 418: Leices., Culic. Malaya, 228: Edwards, Bull. Ent. Res. IV, 237: Brun., Rec. Ind. Mus. I, 362; IV, 494; X, 60.

GENOTYPE, *Uranotaenia minima* Theob., by Edwards' designation.

Etorleptiomyia, Theob., 1st Rep. Wellc. Labor., 71 (1904).

Id., Gen. Ins., Fasc. 26, 44 (1905): *id.*, Monog. Culic. IV, 505: Leices., Culic. Malaya, 178: Brun., Rec. Ind. Mus. I, 368; IV, 484; X, 60: Blanch., Moust., 632.

Genotype, *E. mediolineata* Theob., by original designation.

O'Reillia, Ludl., Can. Ent. XXXVII, 101 (1905).

Genotype, *O. luzonensis* Ludl., ♀, by original designation.

Ludlowia, Theob., Monog. Culic. IV, 193 (1907).

Id., *loc. cit.*, V, 190, tab. spp.: Brun., Rec. Ind. Mus. IV, 493; X, 64.

Edw., Bull. Ent. Res II, 244.

Genotype, *Mimomyia chamberlaini* Ludl., by original designation.

Megaculex, Theob., Monog. Culic. IV, 282 (1907).

Genotype, *Culex albitarsis* Theob., by original designation.

Boycia, Newstead, Ann. Trop. Med. and Parasit. I, 33 (1907).

Genotype, *B. mimomyiaformis*, *id.*, sp. nov., *loc. cit.*

Radioculex, Theob , Rec. Ind. Mus. II, 295 (1908).

Theob., Monog. Culic. V, 192: Brun., Rec. Ind. Mus. IV, 465; X, 70.

Genotype, *R. clavipalpus*, *id.*, sp. nov., *loc. cit.*

Dasymyia, Leices., Culic. Malaya, 102 (1908).

Brun., Rec. Ind. Mus. IV, 453; X, 59.

Genotype, *D. fusca*: *id.*, sp. nov., *loc. cit.*

Conopomyia, *id.*, *loc. cit.*, 113 (1908).

Brun., Rec. Ind. Mus. IV, 453; X, 58.

Genotype, *C. metallica* Leices., by my own designation.

Hispidimyia, Theob., Monog. Culic V, 245 (1910).

Genotype, *H. hispida*, *id.*, sp. nov., *loc. cit.*

Ingramia, Edw., Bull. Ent. Res. III, 43 (1912).

Genotype, *Mimomyia malfeyti* Newstead, by original designation.

minima Theob., Monog. Culic. II, 262, ♂, fig. 281, wing, costal border, wing scales (*Uranotaenia*) (1901).

Uranotaenia minima, Giles, Handb., 2nd ed., 488, ♂.

Ficalbia minima, Blanch., Moust., 418, ♂: Brun., Rec. Ind. Mus. IV, 494: Edw., Bull. Ent. Res. IV, 238.

Mimomyia minuta, Theob., Rec. Ind. Mus. II, 301, ♂ (1908).

Id., *loc. cit.*, IV, 30, ♀; pl. i, wing; pl. iii, wing scales: *id.*, *loc. cit.*, V, 531, ♂ ♀, fig. 226, wing.

Quilon, 7-iii-00 and ii [*James*]; Sylhet, 27-xi-04 [*Hall*]; Calcutta, 30-vii and 3 or 4-viii-07 [*Annandale*].

Types of *minima* and *minuta* in British Museum.

simplex Theob., Monog. Culic. III, 297, ♂ (1903).

Id., *loc. cit.*, V, 541, ♀, fig. 235, wing: Blanch., Moust., 418, ♂.

Aedes simplex, Edw., Bull. Ent. Res. IV, 238.

Skusea simplex, *id.*, *loc. cit.*, VII, 224, fig. 9b, 9c, ♂ genitalia.
Kurumegalla, Ceylon, ix [*Green*]; Trincomalee, xi, 1906 [*Green*].
Type in British Museum.

chamberlaini Ludl., Can. Ent. XXXVI, 297, ♂ (*Mimomyia*) (1904).
Ludlowia chamberlaini, Theob., Monog. Culic, IV, 194, ♂ (Miss Ludlow's descr. copied): Brun., Rec. Ind. Mus. IV, 493.
Bayembang, Phil. Is., v [*Chamberlain*].
Type in British Museum.

luzonensis Ludl., Can. Ent. XXXVII, 101 (*O'Reillia*) (1905).
Etorleptiomyia luzonensis, Ludl., Can. Ent. XXXVIII, 185.
Theob., Monog. Culic. IV, 506, ♀.
Ficalbia luzonensis, Edw., Bull. Ent. Res. IV, 238.
Etorleptiomyia completiva, Leices., Culic. Malaya, 178, ♂ (1908).
Brun., Rec. Ind. Mus. IV, 484.
Bayembang (Pangasinan, Ph. Is.) [*Chamberlain*]; Singapore [*Finlayson*]. *Type* of *luzonensis* in Army Medical Museum, Washington; of *completiva* in Leicester's collection.

clavipalpus Theob., Rec. Ind. Mus. II, 295, ♂ ♀ (*Radioculex*) (1908).
Theob., *loc. cit.*, IV; pl. i, wing; pl. ii, head: *id.*, Monog. Culic. V, 193, ♂ ♀: Brun., Rec. Ind. Mus. IV, 465.
Calcutta, vii, xi, xii; Berhampur, Bengal, 1-i-08 [*Lloyd*]; Katihar, 4—5-x-08 [*Paiva*]; Vaikam coast of Travancore, 5-xi-08 [*Annandale*]; Rangoon, 25-ii-08 [*Annandale*]
Type in Indian Museum, *cotypes* in British Museum.

fusca Leices., *loc. cit.*, 102, ♂ ♀ (*Dasymyia*) (1908).
Brun., Rec. Ind. Mus. IV, 453.
Kuala Lumpur; Bukit Kutu (Malaysia).
Type in Leicester collection.

metallica Leices., Culic. Malaya, 113, ♂ ♀ (*Conopomyia*) (1908).
Kuala Lumpur and neighbourhood [*Leicester*].
Type in Leicester collection.

hybrida Leices., Culic. Malaya, 115, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 453.
Kuala Lumpur [*Leicester*]; Singapore [*Dr. Finlayson*].
Type in Leicester collection.

aurea Leices., Culic. Malaya, 116, ♂ ♀ (1908).
Kuala Lumpur and Raub, Malaysia.
Type in Leicester collection.

longirostris Leices., Culic. Malaya, 228, ♂ ♀ (1908).
Skusea longirostris, Edw., Bull. Ent. Res. VII, 224.
Brun., Rec. Ind. Mus. IV, 494.
Kuala Klang, January. *Type* in Leicester collection.

tenax de Meij., Ann. Jard. Bot. Buitenzorg, Supp. 3, p. 928 (1910).
Java. *Type* in Amsterdam Museum.

dofleini Guenther, Zeits. wiss. Insek. IX, 204 (1914).
Ceylon. *Type*, location unknown to present author.

ludlowi *nom. nov.* for *minima*, Ludl., preocc.
Mimomyia minima, Ludl., Can. Ent. XXXIX, 413, ♂ ♀ (1907).
Ludlowia minima, Theob., Monog. Culic. V, 191, ♂ ♀ (Miss L.'s descr. copied): Brun., Rec. Ind. Mus. IV, 493.

Uranotaenia, Arrib.

Revista Mus. La Plata I, 405 (1891).
Theob., Monog. Culic. II, 241, fig. head, 242, map of distribution, 243; tab. spp.; pl. D, wing scales; V, 498, tab. spp: *Id.*, Gen. Ins., Fasc. 26, 36: Blanch., Moust., 406, ♂ ♀: Giles, Handbk., 2nd ed., 485, 487, tab. spp.: Leices., Culic. Malaya, 203, tab. Malayan spp.: Brun., Rec. Ind. Mus. I, 363; IV, 495; X, 73: Alcock, Ent. Med. Off. 104: How., Dyar and Knab, Mosq. N. Amer., etc, IV, 898.
GENOTYPE, *U. pulcherrima* Arrib., by designation of Neveu-Lemaire, 1902.

Pseudouranotaenia, Theob, Jour. Econ. Biol. I, 33 (1905).
Theob., Monog. Culic. IV, 566, fig. 262 (p. 567), wing, ♂: Brun., Rec. Ind. Mus. IV, 494; X, 70.
GENOTYPE, *P. rowlandii* Theob., by original designation.

Anisocheleomyia, Theob., Entom. XXXVIII, 52 (1905).
Theob., Monog. Culic. IV, 570: Brun., Rec. Ind. Mus. I, 363; IV, 493; X, 55.
GENOTYPE, *A. nivipes* Theob., by my own designation, 1914.

caeruleocephala Theob., Monog. Culic. II, 256; fig. 276, thorax, scutellum, head scales (1901).
Brun., Rec. Ind. Mus. I, 363.
Cottabatto (Mindanao, Phil. Is.) [*Vedder*]. Also occurs in Gambia, the Sudan and old Calabar.
Type in British Museum.

nivipes Theob., Entom. XXXVIII, 53 (*Anisocheleomyia*) (1905).
Uranotaenia nivipes, Edw., Bull. Ent. Res. IV, 238.
Uranotaenia nivea, Leices., Culic. Malaya, 211, ♂ (1908): Brun., Rec. Ind. Mus. IV, 497.
Pseudouranotaenia triangulata, Ludl., Can. Ent. XL, 331, ♂ (1908): Theob., Monog. Culic. V, 525 (Miss Ludlow's descr. copied).
Kuala Lumpur; Reine Regente (Mindanao, Phil. Is.), ii
Type, *nivipes* in British Museum; *triangulata* in Army Medical Museum, Washington.

alboannulata Theob., Entom. XXXVIII, 54 (*Anisocheleomyia*) (1905).

Uranotaenia alboannulata, Edw., Bull. Ent. Res. IV, 238.

Anisocheleomyia alboannulata, Theob., Monog. Culic. IV, 573, ♂; fig. 267, wing, ♂; pl. vii, wing scales, ♀: Brun., Rec. Ind. Mus. IV, 493.

trilineata, Leices., Culic. Malaya, 204, ♂ ♀ (1908): Brun., Rec. Ind. Mus. IV, 498.

India [*James*]; Malaysia [*t. Leices.*]. *Types* of *alboannulata* and *trilineata* in British Museum.

testacea Theob., Ann. Mus. Hung., III, 113, ♀; fig. 14, basal segments of antennae; pl. ii, wing; pl. iii, wing scales (1905).

Id., Monog. Culic. IV, 560, ♀; fig. 258, wing ♀: Edw., Bull. Ent. Res. IV, 239.

unilineata, Leices., Culic. Malaya, 220, ♂ ♀ (1908): Brun., Rec. Ind. Mus. IV, 498.

falcipes, Banks, Phil. Jour. Sci. I, 1004, ♂ ♀ (1906).

Singapore, 1902 [*Biro*]; Base of Dawna Hills, 4-iii-08 [*Annandale*]; Rizal; Manila, ii [*Banks, Schultze*]; Malaysia.

Type of *testacea* in British Museum, of *unilineata* in Leicester collection, of *falcipes* in Entom. coll. No. 5210, Bureau of Science, Manila.

atra Theob., Ann. Mus. Hung. III, 114, ♀ (1905).

Id., Monog. Culic. IV, 563, ♀: Edwards, Bull. Ent. Res. IV, 238.

ceylonica, Theob., Monog. Culic. V, 503, ♀; fig. 213, wing (1910).

Muina, Papua [*Biro*]; Galle, Ceylon, 10-vi-07 [*T. B. Fletcher*].

Type of *atra* in Hungarian Museum; of *ceylonica* in British Museum.

albitarsis Ludl., Can. Ent. XXXVII, 131, ♀ (*Anisocheleomyia*) (1905).

Theob., Monog. Culic. IV, 576 (Miss L.'s descr. copied): Brun., Rec. Ind. Mus. I, 363; IV, 494.

Camp Stotsenberg, Angeles, Phil. Is. [*Ludlow*].

Type in Army Medical Museum, Washington.

lateralis Ludl., Can. Ent. XXXVII, 385, ♀ (*caeruleocephala*, Theob., var.) (1905).

Id., Mosq. Phil. Is., 10 (*caeruleocephala*, var.).

Cottabatto, Mindanao, Philippines.

Type in Army Med. Mus., Washington.

Specific validity doubtful, as Miss Ludlow says, if Theobald's *type* was a rubbed specimen it became her var. *lateralis*; Theobald considers the species valid.

micans Leices., Culic. Malaya, 206, ♂ ♀ (1908).

Brun., Rec. Ind. Mus. IV, 497.

Malaysia. *Types* in Leicester's collection.

bimaculiala Leices., Culic. Malaya, 208, ♂ ♀ (1908).

Brun., Rec. Ind. Mus. IV, 495.

Kuala Lumpur; Raub. *Types* in Leicester's collection.

unimaculiala Leices., Culic. Malaya, 210, ♀ (1908).
Brun., Rec. Ind. Mus. IV, 498.
Malaysia. *Type* in Leicester's collection.
Erroneously recorded by me as *unimaculata* (Cat. Or. Culic. Supp.).

campestris Leices., Culic. Malaya, 213, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 495.
Malaysia. *Types* in Leicester's collection.

argyrotarsis Leices., Culic. Malaya, 214, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 495.
Kuala Lumpur. *Types* in Leicester's collection.

cancer Leices., Culic. Malaya, 215, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 496.
Port Swettenham ; Klang. *Types* in Leicester's collection.

longirostris Leices., Culic. Malaya, 217, ♂ (1908).
Brun., Rec. Ind. Mus. IV, 496.
Malaysia. *Type*, apparently unique, in Leicester's collection.

modesta Leices., Culic. Malaya, 218, ♂ ♀ (1908).
Brun., Rec. Ind. Mus 497.
Ampang Jungle, Malaysia. *Types* in Leicester's collection.

nivipleura Leices., Culic. Malaya, 219, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 497.
Selangor. *Types* in Leicester's collection.

maxima Leices , Culic. Malaya, 221, ♀ (1908).
Brun., Rec. Ind. Mus. IV, 497.
Selangor. *Type* in Leicester's collection.

lutescens Leices., Culic. Malaya, 222, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 496.
Kuala Lumpur.

maculipleura Leices., Culic. Malaya, 223, ♀ (1908).
Kuala Lumpur. *Type*, unique, in Leicester's collection.

bicolor, *id.*, *loc. cit.*, 225, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 495.
Kuala Lumpur. *Types* in Leicester's collection.

bimaculata Leices., Culic. Malaya, 226, ♀ (1908).
Brun., Rec. Ind. Mus. IV, 495.
Kuala Lumpur. *Type* in Leicester's collection.

parangensis Ludl., Can. Ent. XLI, 24, ♀ (*Pseudouranotaenia*) (1909).
Theob., Monog. Culic. V, 524 (Miss L.'s descr. copied).
Parang, Mindanao, Phil. Is.
Type in Army Medical Museum, Washington.

powelli Ludl., Can. Ent. XLI, 235, ♀ (1909).
Theob., Monog. Culic. V, 519, ♀ : Brun., Rec. Ind. Mus. IV, 497.

Tayabas, Phil. Is., January.
Type in Army Medical Museum, Washington.

ascidiicola de Meij., Ann. Jard. Bot. Buitenzorg, Supp. 3, 925 (1910).
Java. *Type* in Amsterdam Museum.

leicesteri Edw., Bull. Ent. Res. IV, 239 (*nom. nov.* for *fusca*, Leices.) (1913).
nec *U. fusca*, Theob., 1907.
fusca, Leices., Culic. Malaya, 227, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 496.
Sungei Limbing (Malay Peninsula) [*Dr. Daniels*].
Type in Leicester's collection.

metatarsata Edw., Bull. Ent. Res. V, 81, ♂ (1914).
Kuala Lumpur, 28-viii-03; 9-x-03 [*Leicester*].
Type in British Museum.

moultoni, *id., loc. cit.*, V, 128, ♂ ♀ (1914—15).
Kuching reservoir, Sarawak, 6-iii-14 [*Moulton*].
Type in British Museum.

brevirostris, *id., loc. cit.*, V, 284, ♂ ♀ (1914—15).
Kuching, Sarawak; bred from pitcher plant, 1907 [*J. Hewitt*].
Types in British Museum.

obscura, *id., loc. cit.*, V, 285, ♂ ♀ (1914—15).
Sarawak. From old collection, Sarawak Museum.
Type in British Museum.

Orthopodomyia, Theob.

Entom. XXXVII, 236 (1904).
Theob., Monog. Culic. IV, 527; V, 470, tab.
spp.: Leices., Culic. Malaya, 175: Brun., Rec. Ind. Mus. I, 362; IV, 486; X, 67: Edw., Bull. Ent. Res. IV, 239: How., Dyar and Knab, Mosq. N. Amer. IV, 878.
GENOTYPE, *O. albipes* Theob., by original designation.
Bancroftia, Lutz, in Bourroul's Mosq. do Bras., 59 (1904).
GENOTYPE, *B. albicosta* Lutz, by original designation.

anopheloides Giles, Jour. Trop. Med. VI, 315 (*Mansonia*) (1903).
Edw., Rec. Ind. Mus. IV, 239.
Finlaya anopheloides, Brun., Rec. Ind. Mus. I, 361.
O. maculata, Theob., Rec. Ind. Mus. IV, 29, ♂ (1910).
Id., Monog. Culic. V, 473, ♂.
O. albipes var. *nigritarsis*, Leices., Culic. Malaya, 177.
Maddathorai, 17-xi-08 [*Annandale*], *type* of *maculata*; Pangkor Haut, *type* of *nigritarsis* [*Dr. Daniels*]. *Types* of *anophe-*

loides, ♂ ♀ in British Museum; of *maculata* in Indian Museum; of *nigritarsis* in Leicester collection.

albipes Leices. in Theob., Entom. XXXVII, 237, ♂ ♀ (1904).
Theob., Monog. Culic. IV, 527, ♂ ♀: Leices., Culic. Malaya, 176, ♂ ♀: Brun., Rec. Ind. Mus. I, 362; IV, 486.
Kuala Lumpur, iv [*Leicester*]. *Type* in British Museum.

maculipes Theob., Monog. Culic. V, 470; fig. 208, head ♀; 209, wing, ♀, 210, wing ♀ (? error for ♂) (1910).
Maddathorai, Travancore, 17-xi-08 [*Annandale*]; Peradeniya, 5-vii-09 [*Green*]; Andaman Is., 22-vii-08 [*Lowis* and *Ray White*]. *Type* ♂ in Indian Museum; ♀ in British Museum.
Edwards thinks both *albipes* and *maculipes* probably colour varieties only of *anopheloides*.

Aedeomyia, Theob.

Theob., Monog. Culic. II, 218; fig. 259, scales; 260, map of distribution; (sp. allotted) (1901).
Theob., Jour. Trop. Med. IV, 235 (*nom. nud.*) (1901): *id.*, Monog. Culic. V, 486: *Id.*, Gen. Ins., Fasc. 26, 35: Blanch., Moust., 403, ♂ ♀; fig. 255, var. chars.: Leices., Culic. Malaya, 181: Brun., Rec. Ind. Mus. I, 366; IV, 488; X, 54: How., Dyar and Knab, Mosq. N. Amer., etc., IV, 893.
GENOTYPE, *Aedes squammipennis* Arrib., by my own designation (1914).
Aedomyia, Giles, Handbk., etc., 2nd ed., 478.
Edw., Bull. Ent. Res. III, 24.

squamipenna Arrib., El. Nat. Argent. I, 151 (*Aedes squammipennis*) (1878).
Brun., Rec. Ind. Mus. I, 366; IV, 488.
Aedes squammipenna, Arrib., Dipt. Argent., 62 (1891).
Aedes squamipennis, Giles Handbk., etc., 347.
Aedeomyia squammipennis, Theob., Monog. Culic. II, 219, ♂ ♀; fig. 261, var. chars., ♂ ♀; pl. xxxi, 124, ♀, full ins. col.; pl. E wing scales; *loc. cit.*, III, 307: Leices., Culic. Malaya, 182, ♂ ♀: Paiva, Rec. Ind. Mus. V, 202, notes.
Aedeomyia squammipennis, Theob., Gen. Ins., Fasc. 26; pl. ii, 9, ♀, full ins. col.: Giles, Handb., etc., 2nd ed., 479.
Aedeomyia squamipennis, Blanch., Moust., 404, ♀.
Dawna Hills, 2-iii-08 [*Annandale*]; Calcutta, xi, "at light"; Madras [*Cornwall*]; "at light" at sea, 4 miles off Tuticorin, 25-v-08 [*Paiva*]; Ceylon; Kuala Lumpur; Perak [*Wray*]; Seleo Berlinhafen and Friedrich Wilhelmshafen [both Papua and *Biro*], Manila [*Banks*]. Also occurs in South America, West Indies and the Sudan. *Type* of *squamipenna*, location unknown to present author.

catasticta Knab, Ent. News Phil., XX, 387 ♀ (1909).

Brun., Rec. Ind. Mus. IV, 488: Edw., Bull. Ent. Res. III, 25.
Samal, Bataan Parang; Mindanao [both *Philippines*]; also Africa.
Type, Cat. No. 12,627, United States National Museum.
Edwards states that British Museum specimens from the Sudan, Gold Coast and both North and South Nigeria agree exactly with Knab's description.

Leptosomatomyia, Theob.

Ann., Mus. Hung. III, 110 (1905).
Theob., Monog. Culic. IV, 548: Brun., Rec. Ind. Mus. I, 362; IV, 488; X, 63.
GENOTYPE, *L. lateralis* Theob., by original designation.

lateralis Theob., Ann. Mus. Hung. III, 110, ♂; fig. 13, head, scutellum, claws (1905)
Id., Monog. Culic. IV, 548, ♂; fig. 252, head, scutellum, claws.
Muina, Papua. 31-xii-00 [*Biro*].
Type (partly dissected) in Hungarian Museum.

Harpagomyia, de Meij.

Tijd. v. Ent. LII, 165 (1909).
Id., *loc. cit.*, LIV, 126 (metamorphoses); pl. xiv, var. chars.: Theob., Monog. Culic. V, 547; Brun., Rec. Ind. Mus. IV, 504; X, 61.
GENOTYPE, *Malaya genurostris* Leices., as *Harpagomyia splendens* de Meij., sp. nov., *loc. cit.*
Malaya, Leices., Culic. Malaya, 258 (1908).
Brun., Rec. Ind. Mus. IV, 503; X, 64.
GENOTYPE, *M. genurostris*, *id.*, sp. nov., *loc. cit.*
This name, as pointed out by Edwards, is preoccupied by *Malaia*, Heller, 1891, in Coleoptera.
Grahamia, Theob., Rep. on Dr. Graham's coll. (1909), and Monog. Culic. V, 497, footnote, and 548.

genurostris Leices., Culic. Malaya, 258 (*Malaya*) (1908).
Edw., Bull. Ent. Res. IV, 240.
Harpagomyia splendens, Meij., Tijd. v. Ent. LIII, 167, ♂ ♀, pl. x, 1—9, var. chars. (1909).
Brun., Rec. Ind. Mus. IV, 504.
H. caeruleovittata, Ludl., Psyche XVIII, 131 (1911).
Malay Peninsula; Mindanao, Phil. Is., vii.
Type of *genurostris* in British Museum; of *splendens* in Amsterdam Museum; of *caeruleovittata* in Army Med. Mus., Washington.

Hodgesia, Theob.

Jour. Trop. Med. VII, 17 (1904).
Id., Monog. Culic. IV, 579; V, 544: Gen. Ins., Fasc. 26, 40: Giles, Jour. Trop. Med. VII, 368: Leices., Culic. Malaya, 229: Brun., Rec. Ind. Mus. I, 367; IV, 500; X, 62: Blanch., Moust., 631.
GENOTYPE, *H. sanguinae* Theob., by original designation.

sanguinae Theob., Jour. Trop. Med. VII, 17 1904).
Giles, *loc. cit.*, VII, 368: Brun., Rec. Ind. Mus. I, 367.
Angeles, Phil. Is. [*Whitmore*]; Luzon. Also occurs in Uganda.
Type in British Museum.

quasisanguineae Leices., Culic. Malaya, 230, ♀ (1908).
Edw., Bull. Ent. Res. IV, 240.
niveocaputis, Ludl., Psyche XVIII, 130, ♀ (1911).
Kuala Lumpur; Fort Pikit, Mindanao, Phil. Is., xi.
Type of *quasisanguinea* in Leicester's collection; of *niveocaputis* presumably in Army Medical Museum, Washington.

malayi Leices., Culic. Malaya, 231, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 500.
Kuala Lumpur. *Type* in Leicester's collection.

trimaculata Taylor, Trans. Ent. Soc. Lond., p. 204 (1914).
Papua.

Topomyia, Leices.

Culic. Malaya, 238 (1908).
Brun., Rec. Ind. Mus. IV, 499; X, 72.
GENOTYPE, *T. minor*, sp. nov., *loc. cit.*, by my own designation.
Pseudograhamia, Theob., Rec. Ind. Mus. IV, 26 (1910).
Id., Monog. Culic. V, 551: Brun., Rec. Ind. Mus. I, 340; IV, 460; X, 69.
GENOTYPE, *P. aureoventer* Theob., by original designation.

minor Leices., Culic. Malaya, 238, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 500.
Kuala Lumpur. *Type* in Leicester's collection.

decorabilis Leices., Culic. Malaya, 239, ♂ ♀ (1909).
Selangor. *Type* in Leicester's collection.

argenteoventralis Leices., *loc. cit.*, 240, ♂ ♀ (*argentoventralis*) (1908).
Brun., Rec. Ind. Mus. IV, 499: Edw., Bull. Ent. Res. IV, 240.
Pseudograhamia aureoventer, Theob., Rec. Ind. Mus. IV, 27, ♀ (1910): Theob, Monog Culic. V, 551, ♀: Brun., Rec. Ind. Mus. IV, 460, 489.

Selangor; Pallode, Travancore, 16-xi-08 [*Annandale*]. *Type* of *argenteoventralis* in Leicester's collection; of *aureoventer* in Indian Museum. Theobald says (Monog. V) that the *type* of *aureoventer* is in the British Museum, but it is in the Indian Museum.

argyropalpis Leices., Culic. Malaya, 242, ♂ ♀ (1908).
Selangor, iv; Kuala Lumpur, iii. *Types* (a unique pair) in Leicester's collection.

rubithoracis, *id.*, *loc. cit.*, 243, ♂ ♀ (1908).
Malaysia. *Types* in Leicester's collection.

gracilis, *id.*, *loc. cit.*, 244, ♂ ♀ (1908).
Selangor, v. *Type* in Leicester's collection.

nigra, *id.*, *loc. cit.*, 245, ♂ ♀ (1908).
Ampang, near Kuala Lumpur. *Type* in Leicester's collection.

dubitans, *id.*, *loc. cit.*, 246, ♀ (1908).
Selangor, v. *Type*, a unique specimen, probably lost, not in Leicester's collection.

tipuliformis, *id.*, *loc. cit.*, 247, ♂ (1908).
Brun., Rec. Ind. Mus. IV, 500.
Selangor [*Raub.*] *Type* in Leicester's collection.
T. argyroventralis may be the ♀ of this species, according to Leicester, instead of the ♀ described as such, although the way he mentions it is that *tipuliformis* may be the real ♂ of *argentoventralis*. If this proves to be the case the name of the ♂ (*tipuliformis*) should stand, in spite of *argentoventralis* being described on a previous page.

Zeugnomyia, Leices.

Culic. Malaya, 231 (1908).
Brun., Rec. Ind. Mus. IV, 498; X, 73.
GENOTYPE, *Z. gracilis* Leices., by original designation.

gracilis Leices., Culic. Malaya, 232, ♂ ♀ (1908).
Brun., Rec. Ind. Mus. IV, 498
Kuala Lumpur; Jugra, x, xi, xii. *Type* in Leicester's collection.

Rachionotomyia, Theob.

Jour. Bomb. Nat. Hist. Soc. XVI, 248 (1905).
Theob., Monog. Culic. IV, 518: Edw., Bull. Ent. Res. IV, 240: Brun., Rec. Ind. Mus. I, 368; IV, 485; X, 70.
GENOTYPE, *R. aranoides*, Theob., as *R. ceylonensis*, sp. nov., by original designation.

Runchomyia, Theob., Monog. Culic. III, 319 (1903).
Theob., *loc. cit.*, IV, 585, note on name; V, 555, note

on name: *id.*, Gen. Ins., Fasc. 26, 38: Brun., Rec. Ind. Mus. I, 365; IV, 493; X, 71.

GENOTYPE, *R. frontosa*, *id.*, *loc. cit.*, sp. nov.

Binotia, Blanch., Arch. de Parasit. VIII. 478 (1904): *nom. nov.*, under suggested preoccupation by *Rhynchomyia*, Rob. Des. in Muscinae.

Polylepidomyia, Theob., Ann. Mus. Hung. III, 118 (1905).

Theob., Monog. Culic. IV. 625: Brun., Rec. Ind. Mus. I, 366; IV, 502; X, 68.

GENOTYPE, *P. argenteiventris* Theob., by original designation.

Colonemyia, Leices., Culic. Malaya, 233 (1908).

Brun., Rec. Ind. Mus. IV, 498; X, 58.

GENOTYPE, *C. caeruleocephala*, Leices., by my own designation.

Skeiromyia, *id.*, *loc. cit.*, 248 (1908).

Brun., Rec. Ind. Mus. IV, 500; X, 71.

GENOTYPE, *S. fusca*, Leices., by original designation.

Squamomyia, Theob., Rec. Ind. Mus. IV, 28 (1910).

Id., Monog. Culic. V, 529: Brun., Rec. Ind. Mus. IV, 489; X, 71.

GENOTYPE, *S. inornata*, Theob., by original designation.

aranoides Theob., Monog. Culic. II, 274, ♀ (*Wyeomyia*) (1901).

Rachionotomyia aranoides, Edw., Bull. Ent. Res. IV, 241.

Wycomyia aranoides, Giles, Handbk., 2nd ed., 499, ♀: Blanch., Moust., 425.

Rachionotomyia ceylonensis, Theob., Jour. Bomb. Nat. Hist. Soc. XVI, 248, ♀; pl. B. 6, scutellum (1905): Brun., Rec. Ind. Mus. I, 369.

Skeiromyia fusca, Leices., Culic. Malaya, 248, ♂ ♀ (1908). Brun., Rec. Ind. Mus. IV, 500.

Squamomyia inornata, Theob., Rec. Ind. Mus. IV, 28, ♂ (1910). *Id.*, Monog. Culic. V, 529, ♂.

Straits; Malaysia; Peradeniya, x-01 [*Green*]; Dawna Hills, 2000—3000 ft., 2—3-iii-08 [*Annandale*]. *Types* of *aranoides* and *ceylonensis* in British Museum; of *fusca* in Leicester's collection; of *inornata* in Indian Museum.

nitidiventer Giles, Jour. Trop. Med. VII, 368 (*Uranotaenia*) (1904).

Rachionotomyia nitidiventer, Edw., Bull. Ent. Res. IV, 241.

Runchomyia philippinensis, Giles, Jour. Trop. Med. VII, 368 (1904): Theob., Monog. Culic. V, 555 (Gile's descr. copied): Brun, Rec. Ind. Mus. IV, 493

Pampanga, Phil. Is. [*Whitmore*].

Types of both forms in British Museum.

argenteiventris Theob., Ann. Mus Hung. III, 118, ♀, fig. 15, head, scutellum, bristles (*Polylepidomyia*) (1905).

Id., Mong. Culic. IV, 625, fig. 291, head, etc.; fig 292, wing, ♀.

Paumomu River (Papua), ix, xii, 1892 [*Loria*].
Type in Hungarian Museum.

caeruleocephala Leices., Culic. Malaya, 233, ♂ ♀ (*Colonemyia*) (1908).
Brun., Rec. Ind. Mus. IV, 498.
Bukit Kutu; Ulu Klang. *Type* in Leicester's collection.

similis Leices., Culic. Malaya, 235, ♂ ♀ (*Colonemyia*) (1908).
Bukit Kutu; Malaysia. *Type* in Leicester's collection.

hybrida, *id.*, *loc. cit.*, 237, ♀ (*Colonemyia*) (1908).
Bukit Kutu; Malaysia. *Type* in Leicester's collection.

mendacis Daniels, Studies Inst. Med. Res. Fed. Malay States, III, 266, ♂ ♀ (1908), (*Colonemyia*) (1908).
Brun., Rec. Ind. Mus. IV, 499.
East Coast Malay Peninsula.
Type probably lost, not in Leicester's collection. Dr. Daniels' paper follows that of Leicester's in the same publication.

affinis Edwards, Bull. Ent. Res. IV, 241, *nom. nov.* for *Phoniomiya caeruleocephala*, Theob. (*nec* Leices).
Phoniomyia caeruleocephala, Theob., Monog. Culic. V, 577, ♂ ♀, fig. 252, wing (1910).
nec Colonemyia caeruleocephala, Leices., Culic. Malaya, 233 (1908).
Hakgala, Ceylon, iii-07 [*Green*].
Types, a unique pair, in British Museum.

vicina Edw., Bull. Ent. Res. V, 128, ♂ ♀ (1914).
Kuching Reservoir, 6-iii-14 [*Moulton*].
Types in British Museum.

nepenthis, *id.*, *loc. cit.* V, 285, ♂ ♀ (1914).
Bred from pitcher plant, xi-07 [*J. Hewitt*].

proxima, *id.*, *loc. cit.* V, 285, ♂ ♀ (1914).
Ulu Klang [*Leicester*] from old collection, Sarawak Museum, including *type*: Ulu Gombak [*Stanton*].
Types in British Museum.

Wyeomyia, Theob.

Monog. Culic. II, 267 (1901).

Theob., Jour. Trop. Med. II, 235 (*nom. nud*): *id.*, Monog. Culic. III, 310, restricted (1903); V, 579, notes: *id.*, Gen Ins., Fasc. 26, 38: Blanch., Moust., 423: Giles, Handbk., etc., 2nd ed. 495: Leices., Culic. Malaya, 250: Brun., Rec. Ind. Mus. I, 365; IV, 501; X, 73: How., Dyar and Knab, Mosq N. Amer., etc., IV, pt. 1, 49.
GENOTYPE, *W. grayii* Theob., by designation of Neveu-Lemaire (1902).

Phoniomyia, Theob., Monog. Culic. III, 311 (1903): Theob., *loc. cit.* IV, 598; Gen. Ins., Fasc.

26, 38: Blanch., Moust., 425: Leices., Culic. Malaya, 253: Brun., Rec. Ind. Mus. I, 365; IV, 502; X, 68.

Genotype, *Wyeomyia longirostris* Theob., by designation of Dyar.

Dendromyia, Theob., *loc. cit.* III, 313 (1903).

Id., *loc. cit.* IV, 603, list, spp.; V, 587, tab. spp.: *id.*, Gen. Ins., Fasc. 26, 39: Blanch., Moust. 426: Leices., Culic. Malaya, 25; Brun., Rec. Ind. Mus. IV, 502: X, 59.

Genotype, *D. ulocoma* Theob., by personal designation (1914). Howard, Dyar and Knab give *Wyeomyia luteoventralis* Theob.

Bolbodeomyia, Theob., Rec. Ind. Mus. IV, 31 (1910): *Id.*, Mong. Culic. V, 581: Brun., Rec. Ind. Mus. IV, 492; X, 56.

Genotype, *B. complex*, Theob., sp. nov., by original designation.

Heinzmannia, Ludl., Can. Ent. XXXVII, 130 (*Heizmannia*, lapsus) (1905): Banks, Phil. Jour. Sci I, 99: Brun., Rec. Ind. Mus. I, 366; X, 61.

Genotype, *H. scintillans* Ludl., by original designation.

greenii Theob., Jour. Bomb. Nat. Hist. Soc., XVI 247, ♂ ♀; pl. B. 5, antenna (1905).

Id., Monog. Culic. IV, 596: Brun., Rec. Ind. Mus. I, 366; IV, 501.

Peradeniya [*Green*], a perfect pair. *Types* in British Museum.

bimaculipes Theob., Ann. Mus. Hung. III, 114, ♀ (*Phoniomyia*) (1905): *id.*, Mong. Culic. IV, 600, ♀.

Moroka, Papua, 1300 metres alt., vii—ix; Fredrich Wilhelmshafen, Papua [*Biro*]. *Type* in Hungarian Museum.

indica Theob., Ann. Mus. Hung. III, 115, ♂ ♀; pl. ii, wing ♀; pl. iii, wing scales ♀ (*Phoniomyia*) (1905).

Phoniomyia indica, Theob., Mong. Culic. IV, 601, ♂, fig. 275, wing ♀: Leices., Culic Malaya, 253, ♂ ♀: Brun., Rec. Ind. Mus. I, 365; IV, 502, notes

Kuala Lumpur; Singapore. *Type* in British Museum.

scintillans Ludl., Can. Ent. XXXVII, 130, ♀ (*Heizmannia*, lapsus) (1905).

Angeles, Pampanga, Phil. Is., ix?

Type in Army Medical Museum, Washington.

metallica Leices., Culic. Malaya, 251, ♀ (1908).

Bukit Kutu, Malaysia.

Type, a unique ♀, in Leicester's collection.

funerea, *id.*, *loc. cit.*, 252, ♀ (1908).

Kuala Lumpur. *Type*, a unique ♀, in Leicester's collection

communis, *id.*, *loc. cit.*, 254, ♂ ♀ (*Dendromyia*) (1908).
Selangor. *Types* in Leicester's collection.
aureochaetae, *id.*, *loc. cit.*, 255, ♀ (*Dendromyia*) (1908).
Kuala Lumpur, iv, v. *Type* in Leicester's collection.
achaetae, *id.*, *loc. cit.*, 257, ♀ (*Dendromyia*) (1908).
Brun., Rec. Ind. Mus. IV, 503.
Malaysia, a unique ♀. *Type* in Leicester's collection.

nepenthicola Banks, Phil. Jour. Sci. IV, 550, ♂ ♀ (1910).
Benguet (Trinidad, Phil. Is.), 30-xii-07 [*Banks*].
Type in Entomological collection, Cat. No. 8159, Bureau of Science, Manila.

complex Theob., Rec. Ind. Mus. IV, 31, ♂ ♀ (*Bolbodeomyia*) (1910).
Id., Mong. Culic. V, 581, ♂ ♀, fig. 253, ♂ genitalia, 254, wing, ♂; 255, wing, ♀: Brun., Rec. Ind. Mus. IV, 492.
Dawna Hills, 2000—3000 ft., 1—3-iii-08 [*Annandale*]. *Types*, a unique pair, in Indian Museum.

Sub-family *CORETHRINAE*.

Giles, Handbk., 2nd. ed., 500.
Brun., Rec. Ind. Mus. IV, 317; 504; *loc. cit.*, VI, 227.

Chaoborus, Lichtenstein.[1]

Arch. Zool. I, 174 (1800).
GENOTYPE, *Tipula plumicornis* F., as *antisepticus*, sp. nov.
Sayomyia, Coq., Can. Ent. XXXV, 189 (1903).
Theob., Gen. Ins., Fasc. 26, 42: Brun., Rec. Ind. Mus. I, 368; X, 71.
GENOTYPE, *Corethra punctipennis* Say., sp. nov.

manilensis Sch., Nov. Reise, Dipt. 30 (*Corethra*) (1868).
Edw., Bull. Ent. Res. IV, 242.
Sayomyia manilensis, Brun., Rec. Ind. Mus. I, 368.
Corethra manillensis, Giles, Handbk., etc., 360, 2nd ed., 504.
Corethra asiatica, Giles, Jour. Bomb. Nat. Hist. Soc XIII, 610 (1901)[2]: Brun., Rec. Ind. Mus. I, 368.
Chaoborus asiatica, Brun., Rec. Ind. Mus. IV, 505.
Chaoborus manillensis (larva and pupa), Baini Prashad, Rec. Ind. Mus. XV, 154, pl. xix, 1-7.
Calcutta, v, vii, viii, ix, xi, xii, often at light [*Annandale*]; Sibpur, near Calcutta, viii; Katihar, Purnea Distr., at light; Shajahanpur, Punjab [*Giles*]; Manila; Yenna R., Medha, Satara

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[1] For discussion on generic synonymy in Corethrinae, see Brun., Rec. Ind. Mus. IV, 317 and VI, 227.
[2] A two-line "description."

Dist., Bombay Presidency. *Type*: location unknown to present author.

cornfordi Theob., Monog. Culic. III, 339, ♀ (*Corethra*) (1903).
Shaohyling, China, v, vi [*Cornford*]. *Type*, location unknown to present author.

Corethrella, Coq.

Jour. N. Yk. Ent. Soc. X, 191 (1902).
GENOTYPE, *C. brakeleyi*, Coq., by original designation.
Rameia, Annand., Spol. Zeyl. VII, 187 (1911).
GENOTYPE, *R. inepta*, *id.*, sp. nov., *loc. cit.*

inepta Annand., Spol Zeyl. VII, 189, fig (p. 188) and pl. (larva, pupa, wing, etc.) (1911).
Diyatalawa, Ceylon, 4,300 ft. Larva, pupa and one imago, a ♂ taken by Maj. MacDougall, R.A.M.C.
Type in the British Museum; *co-type* of larva in the Indian Museum.

Family DIXIDAE.

Dixa, Mg.

Syst. Besch I, 316 (1818).
Sch., F. Austr. II, 641: Brun., Fauna Brit. Ind., 258, fig. 38, var. chars.: *id.*, Rec. Ind. Mus. IV, 264, tab. Ind. spp.
GENOTYPE, *Dixa maculata* Mg., by Curtis's designation.

montana Brun, Rec. Ind. Mus. IV, 265, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 262, ♂ ♀, pl. xii, 9, wing.
Simla, 10-v-09, *type* ♂; Phagu, 11-v-09, *type* ♀; Barogh, 5000 ft., 10-v-09 [all Simla Distr. and all *Annandale*].
Types in Indian Museum.

maculipennis Brun., Rec. Ind. Mus. IV, 266, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 263, ♂ ♀, pl. xii, 10, wing.
Darjiling, 29-v-10, *type* ♂ [*Brunetti*]; Matiana, 8000 ft., Simla Distr., 28–30-iv-07, *type* ♀ [*Annandale*].
Types in the Indian Museum, a unique pair.

ochrolineata Brun., Rec Ind. Mus. IV, 267, ♀ (*ochrilineata*) (1911).
Id., Fauna Brit Ind. 261, ♀, pl. xii, 8, wing.
Kurseong, 9-ix-09 [*Annandale*].
Type, unique, in Indian Museum.

bistriata Brun., Rec. Ind. Mus. IV, 269, ♂ (1911).
Id., Fauna Brit. Ind. 264, ♂.
Darjiling, 29-v-10 [*Brunetti*].
Type, unique, in Indian Museum.

bifasciata Brun., Rec. Ind. Mus. IV, 269, ♀ (1911).
Id., Fauna Brit. Ind. 264, ♀.
Phagu, Simla Distr., 12-v-09 [*Annandale*].
Type, unique, in Indian Museum.

binotata Edw., Jour. Fed. Malay Sts. Mus., VIII, 9, ♂ (1919).
Korinchi Peak, Sumatra.

Family TIPULIDAE.

Sub-family *PTYCHOPTERINAE*.

Ptychoptera, Mg.

Illig. Mag. II, 262 (1803)
Sch., F. Austr. II, 495: Brun., Fauna Brit. Ind., 279: *Auctt.*
GENOTYPE, *Tipula contaminata* L., designated by Latreille (1810).
? *Ctenoceria*, Rond., Dipt. Ital. Prod. I, 187 (1856).

distincta Brun., Rec. Ind. Mus. VI, 232, ♀ (1911).
Id., Fauna Brit. Ind., 281, ♀; pl. v, 1, wing (1912).
Darjiling, 7000 ft., 3--9-vi-09 [*Howlett*].
Type in Pusa collection, a unique specimen.

tibialis Brun., Rec. Ind. Mus. VI, 233, ♂ ♀ (1911):
Id., Fauna Brit. Ind. 282, ♂ ♀ (1912): *id.*, Rec. Ind. Mus. XV, 256.
atritarsis, Brun., Rec. Ind. Mus VI, 234 ♀ (1911): *id.*, Fauna Brit. Ind., 283, ♀ (1912): *id.*, Rec. Ind. Mus. XV, 256.
Darjiling, 7000 ft., 7—16-x-05, 30-ix-08, 7-vi-17, 1st week in June 1917, very common [all *Brunetti*]; Siliguri, 18—20-vii-07; Lebong, 6000—6600 ft., near Ghoom, 13-vi-14 [*Gravely*].
Type ♂ of *tibialis* in Indian Museum; *type* ♀ and *cotype* ♂ ♂ in my collection; *cotype* ♀ in Vienna Museum; *type* of *atritarsis* in Indian Museum.

annandalei Brun., Rec. Ind. Mus. XV, 296, ♂ (1918).
Kalaw, 4000--45000 ft., South Shan States, 10-iii-17 [*Gravely*].
Two ♂ ♂. *Type* in Indian Museum.

Tanyderus, Phil.

Verh. zool.-bot. Ges. Wien, XV, 780, pl. xxix, 57 (1865).
Ost. Sack., *loc. cit.*, XXIX, 517—522 (1879): Brun., Rec. Ind. Mus. XV, 255.
GENOTYPE, *Cylindrotoma ornatissima* Dol., by original designation.

ornatissimus Dol., Nat. Tijd. Ned. Ind. XVII, 80, ♂ (*Cylindrotoma*) (1858).
Ost. Sack., Berl. Ent. Zeits., XXXI, 228, ♂ ♀: Brun., Rec. Ind. Mus. VI, 235: Ender., Zool. Jahr. XXII, 84.
Amboina, Insel Obi. *Type* in Vienna Museum, damaged.

mirabilis de Meij., Tijd. v. Ent. LVIII, 104, fig. 1, wing (1915).
Id., Nov. Guin. Res. XIII, 51 (1915).
Papua.

Sub-family *TIPULINÆ.*

Section CTENOPHORINI.[1]

Xiphura, Brullé.

Ann. Soc. Ent. Fran. I, 206 (1832).
GENOTYPE, *Tipula atrata* L., the original species.

indica Brun., Rec. Ind. Mus. XV, 257, pl. viii, 1, antenna (1918).
Darjiling 6900 ft, 1-vi-17. A perfect unique ♂ in my own collection, taken by me.

Ctenophora, Mg.

Illig. Mag II, 263 (1803).
Sch., F. Austr. II, 498: Ost. Sack., Berl. Ent. Zeits. XXX, 164: Brun., Rec. Ind. Mus. VI, 235: Fauna Brit. Ind., 288: *Auctt.*
GENOTYPE, *Tipula flaveolata* F. designated by Rondani, 1856.[2]
Tanyptera, Latr., Nouv. Dict. Hist. Nat., 428 (1804).

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[1] For characters, *v.* Ost. Sack., Berl. Ent. Zeits., xxx, 164, *et seq*: and Brun., Fauna, 287.

[2] A little investigation will, I think, show that Coquillett's desire (1910) to restrict *Ctenophora* to *atrata* L. and its allies, and to set up *Phoroctenia* for the remaining species of *Ctenophora* in a wide sense, is wrong. He accepts Latreille's designation (1810) of *atrata* L. as type species of *Ctenophora*, which would have therefore left the bulk of the remaining species of the genus without a name, but there may be a flaw in his reasoning which will save the name of Meigen's genus for the group of species so long associated with it. Meigen in 1803 (Illig. Mag.) set up *Ctenophora* for *pectinicornis* L., *bimaculata* L., *atrata* F., and *flaveolata* F. Two years later Latreille erected *Tanyptera* for *atrata* L. So far as can be judged at this length of time, the genus was not favourably received, all the species being still retained in *Ctenophora*. In 1810 Latreille apparently himself acquiesced in this view as he selected *atrata* as the type of *Ctenophora*. In 1832 Brulle proposed *Xiphura* with *atrata* as the sole species, and in 1833 *Dictenidia* with *A. bimaculata* L. as type and these genera were practically universally adopted. Rondani in his list of Italian genera (Prodrome 1856) accepted *atrata* as type species of *Xiphura* and selected *flaveolata* (one of Meigen's four original species) as type of *Ctenophora*, and this view, so far as I am aware, was not challenged. By general consent for the last three quarters of a century, *atrata* has been regarded as not congeneric with the other species of the old *Ctenophora*, and the only question to settle is in which genus it should be placed. Meigen selected no type species out of the four on which he founded *Ctenophora*; therefore Latreille in selecting *atrata* as type of his *Tanyptera* (1805) has undoubtedly prior claim to the species, as it was the sole exponent of his genus, and the fact that the dipterologists of his day apparently ignored the genus does not prevent it being resuscitated if originally legitimately founded. Therefore when Latreille himself, in 1810, acquiescing in the suppression of *Tanyptera*, selected *atrata* as the type species of *Ctenophora*, he went beyond his rights. *Xiphura* in 1832, also founded on *atrata* alone becomes an absolute synonym of *Tanyptera* Rondani, recog-

xanthomelana Walk., List. Dipt. Brit. Mus. I, 77, ♀ (1848).
Ost. Sack., Berl. Ent. Zeits. XXX, 166 · Wulp. Tijd. v. Ent. XXVIII, 81. Brun., Rec. Ind. Mus. VI, 235, 241: Fauna Brit. Ind., 289. East India. *Type* in British Museum.

This species is retained under *Ctenophora* but the ♂ is not known and it probably belongs to *Pselliophora*. *C. melanura*, Walk. (List Dipt. Brit. Mus. I, 78; 1848) is a *Sargus* (*Stratiomyidae*). Alexander now suggests that *xanthomelana* is probably identical with *Prionota nigriceps*, Wulp. If so, of course Walker's name takes precedence.

Pselliophora, Ost. Sack.

Berl. Ent. Zeits. XXX, 165 (1886).
de Meij., Tijd. v. Ent. LIV, 63, tab. Javan spp: Brun., Rec. Ind. Mus VI, 236. tab. orient spp. and notes: *id.*, Fauna Brit. Ind., 290.
GENOTYPE, *Tipula laeta* F., by my own designation (Fauna, 290).

laeta Fab., Ent. Syst. IV, 230 (*Tipula*) (1792).
Ctenophora laeta, *id.*, Syst. Antl., 19: Wied., Dipt. Exot. I, 20 (*Ctenophora*): *id.*, Auss. Zweifl. I, 38[1]: Macq., Dipt. Exot. I, 1, 42, pl. ii, 11 (full ins.): Brun., Rec. Ind. Mus. VI, 240, notes: XV, 257: *id.*, Fauna Brit. Ind., 291, ♂ ♀, pl. vi, 9, antenna (*Pselliophora*).

Widely distributed in India and the East; Dehra Dun, Purneah, Sind, Calcutta, Bangalore, Travancore, Bombay, Goa, Nilgiri Hills, Ceylon. A variable species.

Type presumably in Fabricius's collection.

var. **trilineata** Brun., Rec. Ind. Mus. VI, 240 (1911).
Id., Fauna Brit. Ind., 292, pl. v, 2, wing, var.
Unique type of this variety in Indian Museum.

ardens Wied., Dipt. Exot. I, 20, ♀ (*Ctenophora*) (1821).
Id., Auss. Zweifl. I, 39, ♀ (*Ctenophora*).
Pselliophora, *id.*, de Meij., Tijd. v. Ent. LIV, 61: Brun., Rec. Ind. Mus. VI, 238 (♂ noted): Alex., Proc. U.S. Nat. Mus. XLIX, 179, pl. xlv, 31, wing.

Batavia and environs, x [*Jacobson*]; Lombok; Sumatra; Buitenzorg, iii-09 [*Bryant* and *Palmer*].

Type (a ♀) in Wiedemann's collection: the ♂ was apparently first described by me from a specimen in the Vienna Museum.

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nizing *atrata* as not congeneric with the other species of *Ctenophora*, retained *Xiphura* with *atrata* as type, and in selecting *flaveolata* F. as type of *Ctenophora* was entirely within his rights, and the latter species must be accepted as genotype of the genus in its generally accepted sense. As regards *Tanyptera* versus *Xiphura*, on the grounds of continuity before priority I retain the latter as it has been recognized for nearly ninety years. *Ctenophora* is almost certainly not oriental, but it is as well to keep the name in the lists until the discovery of the ♂ of Walker's *xanthomelana* decides this question.

[1] Some authors erroneously report a figure of this species by Wiedemann.

compedita Wied., Dipt. Exot. I, 21, ♀ (*Ctenophora*) (1821).
Id., Auss. Zweifl. I, 39, ♀ [*Ctenophora*).
Pselliophora, *id.*, Wulp, Tijd. v. Ent. XXIII, 156; pl. x, 1: *id.*, Notes Leyd. Mus. VI, 25: Brun., Rec. Ind. Mus. VI, 238; IX, 257: Alex., Proc. U.S. Nat. Mus. XLIX, 180, pl. xlv, 32, wing.
Darjiling, 1000--3000 ft. [*Lord Carmichael's* colln.]; Semarang, xi [*Jacobson*]; Depok, iii, 09 [*Bryant* and *Palmer*]; Celebes; Aru.
Type of species (a ♀) in Westermann's coll.; ♂ in Leyden Museum.

fuscipennis Macq., Dipt. Exot., Supp. I, 10, pl. i, 4 wing (*Ctenophora*) (1846).
Pselliophora, *id.*, Ost. Sack., Berl. Ent. Zeits. XXX, 172: Brun., Rec. Ind. Mus. VI, 238: IX, 254.
Ctenophora javanica, Dol., Nat. Tijd. Ned. Ind. X, 406, pl. ix, 1, full ins. ♂ (1856): Wulp, Tijd. v. Ent. XX, 156, ♂ noted, pl. x, 2, wing: Brun., Rec. Ind. Mus. VI, 238.
Djokjokarta, Java.
Type in Bigot coll. A ♂ and ♀ from the Darjiling District in the Indian Museum appear to be this species, also two specimens with a red thorax in Lord Carmichael's collection from Singla, 1500 ft. and Darjiling District, 1000--3000 ft. Originally recorded erroneously by Macquart from Brazil.

taprobanes Walk., List Dipt. Brit. Mus., I, 77, ♀ (*Ctenophora*) (1848).
Brun., Rec. Ind. Mus. VI, 240, ♂ noted: *id.*, Fauna Brit. Ind., 293, ♀, pl. v. 3, wing, pl. vi, 10, 11, ♂ genitalia.
Ceylon, not uncommon. May to September.
Type ♀ in British Museum.

fumiplena Walk., Ins. Saund Dipt., pt. v. 449, ♀ (*Ctenophora*) (1856).
Ost. Sack., Berl. Ent. Zeits. XXX, 170: Brun., Rec. Ind. Mus. VI, 240; XV, 258: Edw., Ann. Mag. Nat. Hist. (8) XVIII, 256, notes.
China.
Type ♀ in British Museum. This species is probably out of place in this Catalogue as apparently it comes from North China, from whence Mr. Edwards informs me the ♀ ♀ in the British Museum come.

chrysophila Walk., Proc. Linn. Soc. Lond. I, 6, ♀ (*Ctenophora*) (1857).
Brun., Rec. Ind. Mus. VI, 238: *id.*, Fauna Brit. Ind., 295, ♀.
Bhim Tal, 19—22-ix-06 [*Annandale*]; Singapore; Tura, Assam, viii-17 [*Kemp*].
Type ♀ in British Museum, the ♂ apparently still unknown.

incunctans Walk., Proc. Linn. Soc. Lond. IV, 93, ♂ ♀ (*Ctenophora*) (1860).

Wulp., Notes Leyd. Mus. VI, 255 (*Ctenophora*): *id.*, Cat. Dipt. S. Asia, 37, note: Ost. Sack., Berl. Ent. Zeits. XXX, 171: Brun., Rec. Ind. Mus. VI, 239 (varieties noted).

Ctenophora velutina, Wulp, Notes Leyd. Mus. VI, 256, ♀.

Celebes, Tondano, Saugir.

Type in British Museum, in good condition.

gaudens Walk., Proc. Linn. Soc. Lond. IV, 93, ♂ ♀ (*Ctenophora*) (1860).

Ost. Sack., Ann. Mus. Gen. XVI, 399 (*Ctenophora*): *id.*, Berl. Ent. Zeits. XXX, 171: Brun., Rec. Ind. Mus. VI, 238: IX, 257, pl. xiv, 8, ♂ genitalia.

Celebes.

Type ♂ ♀ in British Museum. A ♂ in the Indian Museum, from Singla, Darjiling District, v-13, may be this species.

suspirans Ost. Sack., Berl. Ent. Zeits. XXVI, 93, ♂ (*Ctenophora*) (1882).

Brun., Rec. Ind. Mus. VI, 241.

Phillippines. Bezzi (Phil. J. Sci. XII, Sect. D, p. 109, ♂ ♀) describes a variety from three localities in Luzon.

Type, location unknown.

idalia Ost. Sack., Berl. Ent. Zeits. XXVI, 94, ♂ (*Ctenophora*) (1882).

Philippines.

Type, a unique ♂; location unknown.

dolens Ost. Sack., Berl. Ent. Zeits. XXVI, 94, ♂ ♀ (*Ctenophora*) (1882).

Brun., Rec. Ind. Mus. VI, 240.

Philippines.

Types, location unknown.

curvipes Wulp, Notes Leyd Mus. VI, 254, ♀ (*Ctenophora*) (1884).

Brun., Rec. Ind. Mus. VI, 238.

Gorontalo.

Type, a unique ♀, in Leyden Museum.

annulosa Wulp, Notes Leyd. Mus. VII, 1, ♀ (*Ctenophora*) (1885).

Brun., Rec. Ind. Mus. VI, 241.

Java.

Type, a unique ♀, in Leyden Museum.

rubra Ost. Sack., Berl. Ent. Zeits. XXX, 171, ♂ (1886).

Brun., Rec. Ind. Mus. VI, 238: Alex., Proc. U.S. Nat. Mus. XLIX, pl. xlv, 33, wing.

Laos, Siam [*Mouhot*]; Buitenzorg, iii-09; 4-iv-09 [*Bryant* and *Palmer*].

Type in Berlin Museum.

nigrithorax Wulp in de Meij., Bijd. tot de Dierk. XVII, 87, ♂ ♀ (1904).

Brun., Rec. Ind. Mus. VI, 238.

Java.

Types in Amsterdam Museum.

insignis de Meij., Bijd. tot de Dierk., XVII, 87, ♂ (1904).
Brun., Rec. Ind. Mus. VI, 241.
Java (Tosari).
Type in Amsterdam Museum, a unique ♂.

stigmatica de Meij., Bijd. tot de Dierk. XVII, 88, ♀, pl. viii, 1 full ins. (1904).
Brun., Rec. Ind. Mus. VI, 238.
Lahago, Central Nias Island.
Type, a unique ♀, in Amsterdam Museum.

bifascipennis Brun., Rec. Ind. Mus. VI, 241, ♀ (1911).
Shanghai.
Type, a unique ♀, labelled "Consul Haas" in Vienna Museum. Possibly out of place in this Catalogue.

divisa, *id.*, *loc. cit.*, 242, ♂ (1911).
Edw., Ann. Mag. Nat. Hist. (8) XVIII, 254, notes: Brun., Rec. Ind. Mus. XV, 258.
"East Indies, 1892" [*Felder*]; Pashok Spur, Darjiling Distr. [*Lister*]; Sikkim, v, 96; Bhutan; Lat Bua, Kao, East Siam [*C. Boden Kloss*].
Type (a ♀) in Vienna Museum.

immaculipennis Brun., Rec. Ind. Mus. VI, 243, ♀ (1911).
Id., Fauna Brit. Ind. 294, ♀, pl. vi, 7, full ins., 8, antenna.
Sylhet [*Hall*].
Unique *type* in Indian Museum.

terminalis, Brun., Rec. Ind. Mus. VI, 244, ♀ (1911).
Montes Mauson, 2000—3000 ft., Tonkin, iv or v [*Fruhstorfer*].
Unique *type* in Vienna Museum.

ctenophorina Riedel, Ent. Mitt. Berl. II, 273 (1913).
Kankau (Koshun), Formosa, v, vi, vii, ix, 1912.
Edwards records a ♂ in the British Museum from Koannania, S. Formosa, 15 vi-06 [*Wileman*].
Types and *cotypes* in Deuts. Ent. Mus. Berl., *cotypes* in Riedel collection.

strigipennis de Meij., Tijd. v. Ent., LVI, Supp. p. 5, ♀ (1913) (Mar. 1914).
Java.

speciosa Edw., Ann. Mag. Nat. Hist (8) XVIII, 254, ♂ (1916).
Khasi Hills, Assam.
Unique *type* in British Museum.

semirufa Edw., *loc. cit.*, 255, ♀ (1916).
Taihoku, Formosa, xi-09 [*Nitobe*].
Unique *type* in British Museum.

luctuosa de Meij., Tijd. v. Ent. LIX, 199, ♀ (1916).
Gunung Susuruh, Preanger, Java [*Corporaal*].
Unique *type* in Amsterdam Museum.

praefica Bezzi, Phil. Jour. Sci. XII, Sect. D, 110, ♂ (1917).
Mindanao, Phil. Is. [*Baker*].

tripudians *id.*, *loc. cit.*, 111, ♀ (? *praefica* ♀) (1917).
Laguna, Phil. Is. [*Baker*].

approximata Brun., Rec. Ind. Mus. XV, 259, ♀ (1918).
Talewadi, N. Kanara Dist., 3--10-x-16 [*Kemp*].
Unique *type* in Indian Museum.

flavofasciata *id.*, *loc. cit.*, 259, ♂ ♀, pl. viii, 2, abdomen, 3, wing (1918).
Above Tura, Garo Hills, Assam, 3500--3900 ft., vii-17 [*Kemp*].
Types in Indian Museum.

aurantia, *id.*, *loc. cit.*, 260, ♀ (1918).
Above Tura, Garo Hills, Assam, 3500—3900 ft., viii-17 [*Kemp*].
Type in Indian Museum.

latifascipennis, *id.*, *loc. cit.*, 260, ♀ (1918).
Pollibetta, Coorg, S. India, 24-x—16-xi-15 [*Fletcher*]
Type, presented to British Museum.

? **P. elongata** Edw., Ann. Mag. Nat. Hist. (8) XII, 202, ♀ (1913).
Hakgala, Ceylon, 4500 ft., v-1911.
Unique *type* in British Museum.

Prionota, Wulp.

Notes Leyd. Mus. VII, 1 (1885).
Edw., Jour. Fed. Malay Sts. Mus. VIII, 15 (1919).
Prionocera, Ender., nec Lw., Zool. Jahr. XXXII, 28 (1912).
GENOTYPE, *P. nigriceps*, sp. nov., the original species.

nigriceps Wulp, Notes Leyd. Mus. VII, 2, ♂ ♀ (1885).
Id. Tijd. v. Ent. XXVIII, 82, pl. iv, 3, full ins.: Brun., Rec. Ind. Mus. VI, 245 [*Prionota*]: Alex., Proc. U.S. Nat. Mus. XLIX, 181, pl. xlv, 34, wing; pl. xlvii, 50, antenna, part, 51, 52, genitalia ♂ [*Prionota*].
Java; Mt. Salak, Java, 15-v-09 [*Bryant* and *Palmer*]; Tjibodas, Mt. Gedé, Java, 20-iv 09 [*Bryant* and *Palmer*].
Type in Leyden Museum. Alexander (*loc. cit.*, *antea*) says *Prionota* and *Prionocera* (*Stygeropis*, Lw.) are distinct. Kieffer uses *Prionota* again in Cecidomyidae in 1894. Edwards recently states that *Ctenophora xanthomelana*, Walk., is probably identical with *nigriceps*.

serraticornis Brun., Rec. Ind. Mus. VI, 242, ? ♂ (*Pselliophora*) (1911).
Id., Fauna Brit. Ind., 296, ? ♂.
Ceylon, 1861 [*Felder*].
Type, a unique specimen with tip of abdomen missing, in Vienna Museum. Edwards recently refers my species here.

flaviceps Ender., Zool. Jahr. XXXII, 28, ♀ (*Prionocera*) (1912).
Sumatra.
Unique *type* in Stettin Zoological Museum

elongata Edw., Ann. Mag. Nat. Hist. (8) XII, 202, ♀ (? *Pselliophora*) (1913).

Hakgala, Ceylon, 4500 ft., v-1911.

Unique *type* in British Museum.

Section TIPULINI.

Ctenacroscelis, Ender.

Zool. Jahr. XXXII, 1 (1912).

GENOTYPE, *C. dohrnianus* Ender., sp. nov.

Ctenacroscelis, Brun , Rec. Ind. Mus. XV, 261.

praepotens Wied., Auss. Zweifl. I, 40 (*Tipula*) (1828).

Tipula, id., Macq., Dipt. Exot., Supp. 3, 7, pl. i, 1 : Ost. Sack., Ann. Mus. Gen. XVI, 399 : *id.*, Berl. Ent. Zeits. XXX, 183 : Brun., Rec. Ind. Mus. VI, 246.

Ctenacroscelis praepotens, Alex., Proc. U.S. Nat. Mus. XLIX, 182, pl. xlv, 35, wing.

East Indies ; Java ; Sumatra ; Amboina ; Mt. Salak, 15-v-09 ; Pelaboean Ratoe [both Java and *Bryant* and *Palmer*].

Type in Leyden Museum, Wiedemann quoting no sex, but both sexes are present among the old specimens in that collection.

monochrous Wied., Auss. Zweifl. I, 41, ♀ (*Tipula*) (1828).

Alex., Proc. U.S. Nat. Mus. XLIX, 182, pl. xlv, 36, wing ; xlvii, 53, 54, genitalia ♂.

Tipula monochroa, Macq., Dipt. Exot., Supp. 3, 6, pl. i, 2, wing : Brun., Rec. Ind. Mus. VI, 246

Gunung Ungaran, Java, v [*Leeuwen*] ; Mt. Salak, 15-v-09 ; Pelaboean Ratoe, x, 09 [both Java and *Bryant* and *Palmer*] ; Sumatra ; Celebes.

Type in Leyden Museum. Wiedemann mentions only the ♀, but both sexes are present in the old collection.

umbrinus Wied., Auss. Zweifl. I, 49, ♂ (*Tipula*) (1828).

Alex., Proc. U.S. Nat. Mus. XLIX, 182, pl. xlv, 37, wing ; xlviii, 55, 56, genitalia ♂.

Tipula umbrina, Wulp, Tijd. v. Ent. XXIII, 158 : *id.*, Notes Leyd. Mus VII, 4 : Ost. Sack., Ann. Mus. Gen. XVI, 399 : Brun., Rec. Ind. Mus. VI, 246 : Edw., Jour. Fed. Malay Sts. Mus. VIII, 11.

Tipula castanea, Macq., Dipt. Exot. I, 1, 54, ♂ (1838).

Tipula congruens, Walk., Proc. Linn. Soc. Lond. V, 231, ♀ (1861).

East Indies ; Sumatra ; Sinabang (Simalur Is. near Sumatra), iii, v, vii ; Celebes ; Obi Island ; Dorey ; Papua ; Waigou, i ; Java, var. locs., i, iv, v, x [*t. de Meij.*] ; Tjibodas, Mt. Gede, 20-iv-09 ; Mt. Salak, 15-v-09 ; Depok, 10-ii-09 [all Java and *Bryant* and *Palmer*] ; Siolak Daras, Sumatra, 3000 ft. ; Sungei Penoh, Korinchi Valley, Sumatra, 2600 ft., iii, 14.

Type in Leyden Museum Edwards recently doubts the identity of *castanea*, Macq., with this species.

infindens Walk., Proc. Linn. Soc. IV, 92, ♀ (*Tipula*) (1860).
Brun., Rec. Ind. Mus. VI, 247.
Ceram, Macassar.
Type in British Museum in fair condition. Walker described it as a ♀ from Makessar, but the specimen labelled "type" is a ♂ from Ceram. Some error seems to have crept in here, which probably cannot now be rectified. I have to thank Mr. Edwards and Mr. Hill for these notes.

majesticus Brun., Rec. Ind. Mus. VI, 248, ♂ ♀ (*Tipula*) (1911).
Id., Fauna Brit. Ind., 303, ♂ ♀ (*Tipula*).
N.E. Frontier, India, 4000 ft., 15-iii-12 [*Kemp*]; Naini Tal; Darjiling, 3—9-vi-09, *type* ♂ [*Howlett*]; Singla, vi-12; Tindharia, 3000 ft., viii-12 [both Darjiling Distr. and Lord Carmichael collection]; Kalimpong, 600—4500 ft. [*Gravely*]; Sureil, iv, v-17 [*Kemp*]; Pashok, 26-v—14-vi-16 [*Gravely*]; Darjiling District, 1000—3000 ft. [Lord Carmichael coll.]; Kurseong, 24-vi-10, *type* ♀ [*Annandale*]; Nilgiri Hills, 3500 ft., ix-10 [*Andrewes*]; Talewadi, N. Kanara Dist. [*Kemp*]; between Kalek and Misshing, 4000 ft., Abor Exped. [*Kemp*]; Mazbat, Mangaldai, Assam [*Kemp*]; Ginting Bidai, 2000 ft., Selangor-Pahang Frontier, Fed. Malay States, iv-17 [*Boden Kloss*].
Type ♂ in Pusa coll., *type* ♀ in Indian Museum. A specimen of *majestica* in the Indian Museum collection measures almost exactly 100 mm. in full expanse of wings which easily surpasses both my *T. carmichaeli* and *Cten. rex*, Alex.

fulvolateralis Brun., Rec. Ind. Mus. VI, 249, ♂ (*Tipula*) (1911).
Id., Fauna Brit. Ind., 304, ♂ ♀, pl. vi, 15, genitalia (*Tipula*): *id.*, Rec. Ind. Mus. XV, 263 (*Tipula*).
Himalayas, common in most localities from 600 ft. upwards, March to October; Mussoorie, ix-06; Bhim Tal, 4500 ft., 19—22-ix-06 [*Annandale*]; Sikkim; Sureil; Kalimpong; Singla; Pashok; Soom; Kurseong; Dhikala, Gahrwal Distr., W. Himalayas, 10-iii-10; Shillong, 5500—6400, 29-viii—5-ix-15 [*Kemp*]; Mazbat, Mangaldai Distr., Assam, 11—15-x-10, *type* ♀ [*Kemp*].
Type ♂ and ♀ in Indian Museum. I have stated my *T. fulvolateralis* to be a true *Tipula*, but at the time of writing I had no specimens for comparison and wrote from memory, but a closer inspection of several specimens proves the species to belong here. Alexander thinks my *fulvolateralis* may be synonymous with *umbrinus*, Wied.

flavus, *id.*, Rec. Ind. Mus. VI, 252, ♂ (*Tipula*) (1911).
Tipula, *id.*, Fauna Brit. Ind., 308, ♂: Rec. Ind. Mus. IX, 257, ♀ noted.
Sikkim, iii or iv, *type* ♂ [*Fruhstorfer*].
Type in Vienna Museum. The specimens referred to this species by me recently (Rec. Ind. Mus. IX, 257) are *flavoides*, Brun., the *type* ♂ being the only example of *flavus* known to me

ornatithorax, *id.*, Rec. Ind. Mus. VI, 258 ♂ ♀ (*Tipula*) (1911).
Id., Fauna Brit. Ind., 331, ♂ ♀ (*Tipula*).

Darjiling, 3—9-vi-09, *type* ♂ [*Howlett*]; 21—29-v-06 [*Annandale*]; Kurseong, 5000 ft. [*Annandale*]; Pashok, 2000—2500 ft. [*Gravely*]; Bhowali, Kumaon 5700 ft., vii-09, *type* ♀, and 10-vii-10 [*Imms*]. Recorded doubtfully from Sumatra.

Type ♂ in Pusa coll., *type* ♀ in Indian Museum.

ochripes, *id*, Rec. Ind. Mus. VI, 260, ♂ ♀ (*Tipula*) (1911).
Id., Fauna Brit. Ind., 334, ♂ ♀ (*Tipula*).

Pashok Spur, Darjiling District [*Lister*]; Castle Rock, N. Kanara Dist., 11—26-x-16 [*Kemp*]; Nilgiris, S. India, 6000 ft. [*Andrewes*]; Kandy, 20-v-10, *type* ♂ [*Gravely*]; 31-x-09, *type* ♀ [*Green*]; Man-San, N. Hsenwi, Shan States, Upper Burma, 2400 ft., ii to iv 15 [Coggin-Brown].

Type ♂ ♀ in Indian Museum; *cotype* in Vienna Museum from Ceylon.

dives Brun, Fauna Brit. Ind. 307, ♂ (*Tipula*) (1912).

Kurseong, 23-vi-10 [*Annandale*]; Soom, Darjiling District, 5000—7000 ft., 14-vi-14 [*Gravely*].

Type in Indian Museum.

carmichaeli Brun., Rec. Ind. Mus. IX, 257, ♂; pl. xiv, 6, full ins., 9, genitalia (*Tipula*) (1913).

Sureil, Darjiling District, vi-13; captured by Lord Carmichael in a bath-room.

Type in Indian Museum. A second specimen was recently seen by me, in the possession of Capt. Balfour.

borneensis Brun., Rec. Ind. Mus. XV, 263, *nom. nov.* for *pallida*, Walk.. preocc. Lw., 1863 (*Tipula*) (1918).
Tipula pallida, Walk. nec Lw., Proc. Linn. Soc. Lond. VIII, 105 (1865).

Brun., Rec. Ind. Mus. VI, 247: de Meij., Nova Guin. Res. IX, 311. Papua, Riverkamp, ii; Alkmaar, x; Regen Is., ix, x (all Papua).

Type in good condition in British Museum.

flavoides, *id.*, *loc. cit.*, 267, ♂ ♀; pl. viii, 5, antenna (as "sp. nov." only, *lapsus*) (*Tipula*) (1918).

Singla, Darjiling District, 1500 ft, v-13; vi-12; Shoirakund, Assam-Bhutan Froniter, 18—22-x-12; Darjiling, 1000—3000 ft., vi-12; above Tura, Garo Hills, 3500—3900 ft., ix-17 [*Kemp*]; Sidapur, Coorg, S. Ind., 16-v-17.

Types in Indian Museum.

dohrnianus Enderl., Zool Jahr. XXXI, 1, ♀, fig. A, wing (1912).

Soekaranda, Sumatra.

Type, a unique ♀, in Stettin Zoolog. Museum.

sikkimensis, *id.*, *loc. cit.*, 4, ♂ (1912).

Darjiling.

Type, a unique ♂, in Stettin Zoolog. Mus.

sumatranus, *id.*, *loc. cit.*, 5, ♀ (1912).
Soekaranda, Sumatra.
Type, a unique ♀, in Stettin Zoological Museum.

rex Alex., Insec. Insit. Menst. V, 21, ♂ (1917).
Brun , Rec. Ind. Mus. XV, 261.
Taungoo Distr., Burma.
Type in Entomological collection, Philadelphia, *cotype* in Alexander's coll. *Rex* and my *Tipula carmichaeli* are probably amongst the largest species of diptera known.

penumbrinus Edw., Jour. Fed. Malay Sts. Mus. VIII, 11, ♀ (1919).
Siolak Daras, Sumatra, 3000 ft.

Tipula, L.

Syst. Nat. Ed. X, 585 (1758).
Sch., F. Austr., II, 509: de Meij., Tijd. v. Ent. LIV, 63, tab. Java sp.: Brun., Rec. Ind. Mus. VI, 246; XV, 262, notes Orient. spp.: *id.*, Fauna Brit. Ind., 297.
GENOTYPE, *T. oleracea* L., by universal acceptance.
Tipulodina, Ender., Zool. Jahr. XXXII, 30 (1912): Brun., Rec. Ind. Mus. XV, 270, 322, criticism.
GENOTYPE, *Tipula magnicornis* Ender., sp. nov., by original designation.

pedata Wied , Dipt. Exot. I, 23, ♀ (1821).
Id., Auss. Zweifl. I, 45, ♀: Wulp , Dipt. Sum. Exped., 10: Ost. Sack., Berl. Ent. Zeits. XXVI, 92: de Meij., Tijd. v. Ent. LIV, 64: Brun., Rec. Ind. Mus. VI, 246: Alex., Proc. U.S. Nat. Mus. XLIX, 183, pl. xlv, 38, wing; XLVIII, 57—60, genitalia ♂.
Java, var. locs., i, xi, xii; Buitenzorg, iii, 09; 10-iv-09; Pelaboean Ratoe, 12-x-09; Mt. Salak, 3000 ft., 15-v-09 [all three Java and *Bryant* and *Palmer*]; Sumatra; Borneo; Philippine Is.; Assam; Ceylon.
Type, a ♀, in Westermann's collection.

venusta Walk., List Dipt. Brit. Mus. I, 64 (1848).
Brun., Rec. Ind. Mus. VI, 246: *id.*, Fauna Brit. Ind., 302, pl. v, 5, wing.
Sylhet; Siliguri; Calcutta [*Targett*]: Myitkyina, Upper Burma, 30-viii – 1-ix-14 [*Fletcher*]; Tura, Garo Hills, Assam, viii-17 [*Kemp*].
Type recorded originally as in the British Museum, sex unstated, but now no longer to be found there.

reposita Walk., List Dipt. Brit. Mus. I, 67, ♂ ♀ (1848).
Brun., Rec. Ind. Mus. VI, 246: Fauna, 315.
Nepal.

Type ♂ ♀ in British Museum, ♂ in fair condition, ♀ reduced to a fragment.

melanomera Walk., List Dipt. Brit. Mus. I, 68, ♂ (1848).

Brun., Rec. Ind. Mus. VI, 247; XV, 263: Brun., Fauna Brit. Ind., 330.

Sureil, 5000 ft., iv—v-17 [*Kemp*]; Maymyo, Upper Burma [*Fletcher*]; Nepal.

Type in British Museum.

vicaria Walk., Ins. Saund. Dipt., pt. V, 444, ♂ (1856).

Brun., Rec. Ind. Mus. VI, 247: Fauna Brit. Ind., 332.

India, according to the *type*. Walker's description says East Indies.

Type in British Museum, too damaged for comparison. The name *vicaria* is preoccupied by Walker himself in 1848 for a South African species. The present species appears to be represented by the original specimen only, which is useless. If subsequently identified from the description a new name can be set up.

vilis Walk., Proc. Linn. Soc. I, 108, ♂ (1857).

Brun., Rec. Ind. Mus. VI, 247: de Meij., Tijd. v. Ent. LIV, 69 (♀ descr.).

Sarawak, *type* ♂; Buitenzorg, iii; Gunung Ungaran, xii [both Java and *Jacobson*].

Type in British Museum, beyond recognition.

inordinans Walk., Proc. Linn. Soc. IV, 93, ♂ (1860).

Brun., Rec. Ind. Mus. VI, 247.

Macassar.

Type, a unique ♂, in British Museum, in good condition.

fumifinis Walk., *loc. cit.*, V, 145, ♂ (1861).

Brun., Rec. Ind. Mus. VI, 247, notes.

Amboina.

Type, a unique ♂, in British Museum, in good condition. Walker thought his species identical with *longicornis*, Dol., but Van der Wulp considered them distinct.

punctifrons Rond., Ann. Mus. Gen. VII, 463 (1875).

Brun., Rec. Ind. Mus. VI, 247.

Sarawak. Location of *type* uncertain, said to be in Genoa Museum.

serrata Wulp, Notes Leyd. Mus. VII, 5, ♂ (1885).

Brun., Rec. Ind. Mus. VI, 247.

Seharan, Sumatra.

Type in Leyden Museum, also a ♀ from Sumatra in same collection.

pilosula Wulp, Notes Leyd. Mus. VII, 5, ♂ (1885).

de Meij., Tijd. v. Ent. LIV, 67: Brun., Rec. Ind. Mus. VI, 247.

Java; Gunung Kenepai; Borneo.

Type in Leyden Museum.

leucopyga Wulp. Notes Leyd. Mus. VII, 6, ♂ ♀ (1885).
Id., Tjid. v. Ent. XXVIII, 84, pl. iv, 6: Brun., Rec. Ind. Mus. VI, 247.
Java; Depok, Java, ii [*Jacobson*]
Types ♂ ♀ in Leyden Museum.

thibetana de Meij., Bijd. tot de Dierk. XVII, 89, pl. viii, 2, 3, wing (1904).
Brun., Rec. Ind. Mus. VI, 248.
Tatsienlou, Thibet.
Type in Amsterdam Museum. Perhaps incorrectly included in this Catalogue but may occur in the Himalayas.

omissinervis de Meij., Nova Guin. Res. V, 71, fig. 4, wing, part (*Tanypremna*) (1906).
Id., *loc. cit.*, IX, 312, note: Brun., Rec. Ind. Mus. VI, 268.
Wendesi, Papua, vi; Regen Is., Papua, ix—x-09; Waigou, i.
Type in Leyden Museum, *cotype* in Amsterdam Museum.

cinctipes de Meij., Tijd. v. Ent. LIV, 64, ♂ (1911).
Gunung Kenepai (Borneo, Pondok).
Type, a unique ♂, in Leyden Museum.

gedehana, *id.*, *loc. cit.*, 66. ♀ pl. iv, 47, wing (1911).
Alex., Proc. U.S. Nat. Mus. XLIX, 185, pl. xlix, 63, 64, genitalia ♂.
Kraton des Gunung, Gedeh, Java [*Buttikofer*]; Tjibodas, Mt. Gede, Java, 4000, 8000, 9000 ft., ix-09 [*Bryant* and *Palmer*].
Type in Leyden Museum.

cinereifrons, *id.*, *loc. cit.*, 68, ♂, pl. iv, 48, wing (1911).
Java [*t. de Meijere*]; Sumatra [*t. Enderlein*].
Type in Leyden Museum.

inconspicua, *id.*, *loc. cit.*, 70, ♂, pl. iv, 49. wing (1911).
Wonosobo, Java, iv [*Jacobson*].
Type in Amsterdam Museum, a unique ♂.

walkeri Brun., Rec. Ind. Mus. VI, 246, *nom. nov.* for (and notes on) *fulvipennis*, Walk., preocc. De Geer (1911).
Tipula fulvipennis, Walk., List. Dipt. Brit. Mus. I, 67 (1848).
Nepal.
Type in British Museum, sex unstated, valueless for comparison. De Geer's *fulvipennis*, a European species, was set up in 1776 and is synonymous with *lutescens*, F.

schummeli Brun., Rec. Ind. Mus. VI, 247, *nom. nov.* for *longicornis*, Dol. (1911).
longicornis, Dol., Nat. Tijd. Ned. Ind. XVII, 79 (1858).
Amboina.
Type in Vienna Museum; no sex stated. The name *longicornis*, preoccupied by Schummel in 1833 for a European species, and also used for some other species subsequently.

fumifasciata Brun., Rec. Ind. Mus. VI, 250, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 308, ♂ ♀, pl. v, 7, wing.

Ukhral, Manipur, 6400 ft., viii 18, *types* [*Pettigrew*]; Central China.

Type ♂ and ♀ in Indian Museum, *cotypes* in Vienna Museum.

fumipennis, *id.*, Rec. Ind. Mus. VI, 250, ♀ (1911).

Id., Fauna, Brit. Ind., 305, ♀, pl. v, 6, wing.

Darjiling, 3—9-vi-09 [*Howlett*], *type*; 6000—7000 ft. [*Gravely*]; 7000 ft. [*Brunetti*]; Mussoorie, vi-09.

Type in Pusa collection.

pluto, *id.*, Rec. Ind. Mus. VI, 251, ♀ (1911).

Tonkin (Montes Mausson, 2000—3000 ft., iv or v) [*Fruhstorfer*].

Type, a unique ♀, in Vienna Museum.

cinerea, *id.*, *loc. cit.*, 252, ♀ (1911).

Id., *loc. cit.*, XV, 274.

Lombok, 2000 ft., v or vi-1896 [*Fruhstorfer*].

Type in Vienna Mus., a unique ♀.

sciariformis, *id.*, Rec. Ind. Mus. VI, 259, ♀ (1911).

Tonkin [*Fruhstorfer*].

The unique ♀ *type* in Vienna Museum.

demarcata, *id.*, *loc. cit.*, 259, ♀ (1911).

Id., Fauna Brit. Ind., 335, ♀.

Kurseong, 4700—5000 ft [*Annandale*]; Almora, Kumaon, 5000 ft. [*Paiva*]; Kandy, v-1910, *type* [*Green*]; Peradeniya, 25-xii-01 [*Dr. Uzel*].

Type in Indian Museum, *cotype* from Peradeniya in Vienna Museum.

himalayensis, *id.*, Rec. Ind. Mus. VI, 252, ♂ ♀ (1911).

Id., Fauna Brit. Ind., 315, ♂ ♀, pl. v, 11, wing; pl. vi, 16, 17, genitalia: Rec. Ind. Mus. XV, 262, allied spp.

Himalayas, the commonest species, generally distributed at all hill stations from east to west during summer and autumn, at least from Shillong to Mussoorie.

Type ♂ and ♀ in Indian Museum, *cotype* in my collection.

robusta, *id.*, Rec. Ind. Mus. VI, 254, ♂ (1911).

Id., Fauna Brit. Ind., 319, ♂.

Mussoorie, 22-vi-05 [*Brunetti*].

Type, a unique ♂, in my collection.

elegans, *id.*, Rec. Ind. Mus. VI, 255, ♀ (1911).

Id., Fauna Brit. Ind, 323, ♀: *id.*, Rec. Ind. Mus. XV, 274.

Mussoorie, 18-vi-05 [*Brunetti*].

Type, a unique ♀, in my collection.

interrupta, *id.*, Rec. Ind. Mus. VI, 256, ♀ (1911).

Id., Fauna Brit. Ind, 327, ♀.

Darjiling, 3—9-vi-09 [*Howlett*].

Type, a unique ♀, in Pusa coll.

nigroapicalis, *id.*, Rec. Ind. Mus. VI, 257, ♂ ♀ (1911).

Id, Fauna Brit. Ind., 328, ♂ ♀.

Darjiling, 16—20-x-05, *type* ♂ ♀, 10—16-x-05 [both *Brunetti*]. *Type* ♂ ♀ and other specimens in my collection.

divisa, *id.*, Rec. Ind. Mus. VI, 261, ♂ (1911).
Id., Fauna Brit. Ind., 337, ♂.
Darjiling, 3—9-vi-09 [*Howlett*].
Type, a unique ♂, in Pusa collection.

gracilis, *id.*, Rec. Ind. Mus. VI, 262, ♀ (1911).
Id., Fauna Brit. Ind., 338, ♀.
Darjiling, 7-x-05.
Type, a unique ♀, in my collection.

gracillima Brun., Fauna Brit. Ind., 302, ♀ (1912).
Edw., Ann. Mag. Nat. Hist. (8) XII, 202 (1913): Brun., Rec. Ind. Mus. XV, 262.
Peradeniya, 20-vii-10, *type* [*Gravely*]: Cherambadi, Wynaad, S. India, x-13 [*Howlett*]; Parambikulam, Cochin, 1700—3200 ft., 16—24-ix-14 [*Gravely*].
Type in Indian Museum.

princeps Brun., Fauna Brit. Ind., 306, ♂ ♀ (1912).
Kurseong, 18—19-vi-10, at light [*Annandale*]; Darjiling, 7000 ft: 1—10-vi-17 [*Brunetti*]; Soom, Darjiling District, 4000—5000 ft., 16-vi-14 [*Gravely*].
Types in Indian Museum.

serricornis, *id.*, *loc. cit.*, 309, ♂ ♀ (1912).
Western Himalayas, Naini Tal.
Types in Indian Museum.

pulcherrima, *id.*, *loc. cit.*, 310, ♂ ♀; pl. v, 8, wing; pl. vi, 12, thorax, 13, genitalia (1912).
Darjiling, 3—9-vi-09 [*Howlett*]; v-13; Tura, Garo Hills, Assam, vii 17 [*Kemp*]; Bhowali, 5700 ft., 27-vi-10, *type* ♂, at light; vii-09, *type* ♀, 26-vi 10 [all *Imms*].
Types in Indian Museum, *cotype* ♀ in Pusa coll.

fuscinervis, *id.*, *loc. cit.*, 312, ♀ pl. v, 9, wing (1912).
Kurseong, 21—29-v-06 [*Annandale*].
Type in Indian Museum, a unique ♀.

patricia, *id.*, *loc. cit.*, 313, ♀ (1912).
Kurseong, 26-vi-10 [*Annandale*].
Type in Indian Museum, a unique ♀.

splendens, *id.*, *loc. cit.*, 314, ♂, pl. v, 10, wing (1912).
Badrinath, Gahrwal Distr., 21-v-10 [*Imms*].
Type, a unique ♂, in Indian Museum.

tessellatipennis, *id.*, *loc. cit.*, 317, ♂ ♀, pl. v, 13, wing (1912).
Naini Tal, 6400 ft., v or vi, 1893.
Types in Indian Museum, a unique pair.

marmoratipennis, *id.*, *loc. cit.*, 319, ♀, pl. v, 13, wing (1912).
Darjiling, 24-iv-10, *type* [*Brunetti*]; 10-vi-17, 7-viii-09 [*Paiva*].
Type in Indian Museum.

quasimarmoratipennis, *id.*, *loc. cit.*, 320, ♀, pl. v, 14, wing (1912).
Darjiling, 23-v-10, *type* [*Brunetti*]; Kurseong, 9-ix-09 [*Annandale*]; Ukhrul, Manipur, 6400 ft. [*Pettigrew*]; Tura, Garo Hills, Assam, ix-17 [*Kemp*]. *Type* in Indian Museum.

griseipennis, *id.*, *loc. cit.*, 321, ♂, pl. v, 15, wing (1912).
Badrinath, Gahrwal Distr., 27-v-10 [*Imms*]; Matiana [*Annandale*]. *Type* in Indian Museum.

nigrotibialis, *id.*, *loc. cit.*, 324, ♂ (1912).
Darjiling, 28-v-10 [*Brunetti*].
Type in Indian Museum.

striatipennis, *id.*, *loc. cit.*, 325, ♀, pl. v, 16, wing (1912).
Kurseong, 6-vii-08 [*Annandale*]. Unique *type* in Indian Museum.

subtincta, *id.*, *loc. cit.*, 326, ♀, pl. vi, 18, genitalia (1912).
Darjiling, 29-v-17; 2 and 8-vi-12 (all *Brunetti*]; Kurseong, 7-ix-09 [*Annandale*]; Bhowali, 5-700 ft. [*Imms*]; Maupun, Khasi Hills [*Warren*]. *Type* in Indian Museum.

continuata, *id.*, *loc. cit.*, 328, ♂ ♀ (1912).
Darjiling, 25—29-v-10, *type* ♂ ♀; 16—20-x-05 [both *Brunetti*]; Chitral, N.W. Kashmir, 9500 ft. [*Wall*].
Types in Indian Museum.

quadrinotata, *id.*, *loc. cit.*, 330, ♀ (1912).
Darjiling [*Paiva*]; Ukhrul, Manipur, 6400 ft. [*Pettigrew*].
Type in Indian Museum.

brunnicosta, *id.*, *loc. cit.*, 332, ♂ ♀ (1912).
Simla, 7000 ft.; 11-v-08 [*Annandale*]; Theog, 8000 ft. [*Annandale*] Kalighat, Gahrwal Distr., 6000 ft., 4-vi-10 [*Imms*].
Types in Indian Museum.

tenuipes, *id.*, *loc. cit.*, 333, ♀ (1912).
Sylhet [*Hall*]. Unique *type* in Indian Museum.

flavescens, *id.*, *loc. cit.*, 334, ♀ (1912).
Hakgalla, Ceylon, 29-ix-09 [*Green*].
Unique *type* in Indian Museum.

munda, *id.*, *loc. cit.*, 336, ♂ ♀ (1912).
Mussoorie, 18-vi-09; Darjiling, 23—29-v-10; 10-vi-17 [all *Brunetti*]
Type ♂ ♀ in Indian Museum, *cotype* ♂ ♂ in my collection.

cinctoterminalis, *id.*, *loc. cit.*, 338, ♀ (1912).
Kurseong, 7-ix-09, *type* [*Annandale*]; Bhowali, 15-vi-10 [*Imms*].
Type in Indian Museum.

elegantula, *id.*, *loc. cit.*, 339, ♂; pl. v, 17, wing (1912).
Almora, Kumaon, 5500 ft. [*Paiva*]; Castle Rock, N. Kanara Dist., ? ♀ [*Kemp*]; Shevaroy Hills, Yercaud, S. Ind., 4500 ft.

17—21-xii-13 [*Fletcher*]; Mazbat, Assam, 11—15-x-10 [*Kemp*]; Cherrapunji, Assam, 4400 ft., 2—8-x-14, incl. *type* [*Kemp*]; Shillong, x-16 [*Fletcher*]; 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*]. *Type* in Indian Museum.

coquilletti Ender., Zool. Jahr., XXII, 7, *nom. nov.* for *nubifera* Coq.

nec. *nubifera*, Wulp (1912).

nubifera, Coq., Proc. U.S. Nat. Mus. XXI, 305 (1898).

Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]; also occurs in Japan.

imperfecta, *id.*, *loc. cit.*, 260, ♀ (1913).

Darjiling, 1000—3000 ft., iv-1912.

Type, a unique ♀ in fair condition, in Indian Museum.

tropica de Meij., Nova Guin. Res. IX, 311, ♀ (1913).

Regen Is., Papua, ix, x.

Type unique, in Amsterdam Museum.

novae guineae, *id.*, *loc. cit.*, 312, ♂ ♀ (1913).

Lorentz-Fluss, S.W. Papua, ix-09.

Types, a unique pair, in Amsterdan Museum.

divergens, *id.*, *loc. cit.*, 312, ♂ ♀ pl. x, 6, wing; 7, ♂ genitalia (1913).

Bivak Is., Papua, xii-09, i-10. *Types* in Amsterdam Museum.

dentata, *id.*, *loc. cit.*, 313, ♂ ♀ (1913).

Regen Is., Papua, 16-ii-10.

Types, a unique pair, in Amsterdam Museum.

de meijerei Edw., Trans. Zool. Soc. Lond. XX, 393, ♀, pl. xxxviii, 1, full ins. col. (1915).

Upper Utakwa Valley, 5000—10,000 ft., Dutch Papua, ii, iii-13, *type*.

aetherea de Meij., Tijd. v. Ent. LVIII, 7, ♀ (1915).

Laulo, viii; Sinabang vii, both Simalur Island, near Sumatra. *Type* in Amsterdam Museum.

sinabangensis, *id.*, *loc. cit.*, 9, ♂ ♀ (1915).

Sinabang, Simalur Island, ii, near Sumatra.

Type in Amsterdam Museum.

pumila, *id.*, *loc. cit.*, 9, ♂ (1915).

Sinabang, Simalur Island, ii, near Sumatra.

Type in Amsterdam Museum.

klossi Edw., Ann. Mag. Nat. Hist. (8) XVII, 351, ♀ (1916).

Kedah Peak, 3200 ft., Malay Peninsula [*Stanton*].

Type in British Museum, *paratype* in Kuala Lumpur Museum.

shirakii Edw., *loc. cit.*, XVIII, 258, ♀ (1916).

Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]; Khasi Hills, Assam. *Type* in British Museum.

rufomedia, *id.*, *loc. cit.*, p. 259, ♂ ♀, pl. xii, 5—7, genitalia (1916).
Horisha, Formosa [*Maki*]; "Formosa" [Brit. Mus. coll.].
Type in British Museum.

umbrinoides Alex., Proc. U.S. Nat. Mus. XLIX, 185, ♂, pl. xlvi, 39, wing; xlvii, 61, 62, ♂ genitalia (1916).
Mt. Salak, Java, 3000 ft., 4-vii-09 [*Bryant* and *Palmer*].
Type, No. 19,027, in U.S. Nat Mus.

sunda, *id.*, *loc. cit.*, 186, ♂, pl. xlvi, 40, wing; xlix, 65, 66, ♂ genitalia (1916).
Tjibodas, Mt. Gedé, Java, 9000 ft. [*Bryant* and *Palmer*].
Type, No 19,028, in U.S. Nat. Mus.

flavicosta, *id.*, *loc. cit.*, 187, pl. xlvi, 41, wing (1916).
Pelaboean-Ratoe, Java, 16-x-09 [*Bryant* and *Palmer*].
Type, No. 19,029, in U.S. Nat. Mus.

tjibodensis, *id.*, *loc. cit.*, 188, ♂ ♀, pl. xlvi, 42, wing; pl. l, 68, 69, genitalia ♂ (1916).
Tjibodas, Mt. Gedé, Java, 9000 ft. [*Bryant* and *Palmer*].
Type, No. 19,030, in U.S. Nat. Mus.

salakensis, *id.*, *loc. cit.*, 189, ♂, pl. xlvi, 43, wing; xlix, 67, genitalia ♂ (1916).
Mt. Salak, Java, 1909 [*Bryant* and *Palmer*].
Type, No. 19,031, in U.S. Nat. Mus.

gedericola, *id.*, *loc. cit.*, 189, ♂, pl. xlvi, 44, wing; l, 70, 71, 72, genitalia ♂ (1916).
Tjibodas, Mt. Gedé, Java, 5000 ft., 20-iv-09.
Type, No. 19,032, in U.S. Nat. Mus.

gravelyi Brun., Rec. Ind. Mus. XV, 264, ♂ (1916).
Darjiling, 7000 ft., 13-vi-14 [*Gravely*]; vii-12; E. Himalayas, [*Dracott*]. *Type* in Indian Museum.

contigua, *id.*, *loc. cit.*, 265, ♂ (1918).
Above Tura, Garo Hills, Assam, 3500—3900 ft., viii-17 [*Kemp*]. Unique *type* in Indian Museum.

simillima, *id.*, *loc. cit.*, 265, ♂ (1918).
Castle Rock, N. Kanara Distr., 11—26-x-16 [1918].
Type in Indian Museum.

fumifascipennis, *id.*, *loc. cit.*, 266, ♂ ♀ (1918).
Darjiling, 6000—7000 ft., 11-vi-14, *type* ♂, 12-vi-14, *type* ♀ [both *Gravely*]; 28-v-10 [*Brunetti*].
Types in Indian Museum.

fumicosta, *id.*, *loc. cit.*, 266, ♂ (1918).
Shillong, 5500—6400 ft., 28-viii—5-ix-15, *type* [*Kemp*), 4900 ft., 10—12-x-14 [*Kemp*]; Tura, Garo Hills, x-17 [*Kemp*].
Type in Indian Museum.

filicornis, *id.*, *loc. cit.*, 267, ♂ (1918).
Pashok, Darjiling District, 3000 ft., 26-v—14-vi-16 [*Gravely*]. The unique *type* in the Indian Museum.

rufiventris, *id.*, *loc. cit.*, 268, ♀ (1918).
Pashok, Darjiling Distr., vi-16 [*Hartless*] *type* ♂; Soom, Darjiling Dist., 3000—3500 ft., 15-vi-14, *type* ♀ [*Gravely*]; above Tura, 3500—3900 ft., ix-17 [*Kemp*].
Types in Indian Museum.

flavithorax, *id.*, *loc. cit.*, 268, ♂ (1918).
Parambikulam, Cochin State, S. India, 1700—3200 ft., 16—24-ix-14 [*Gravely*]. The unique *type* in the Indian Museum.

fasciculata, *id.*, *loc. cit.*, 269, ♂ ♀ (1918).
Darjiling, 7000 ft., 25-v-10, *type* ♂ [*Brunetti*]; Tonglu, Darjiling District, 10,000 ft., 21-iv-10 [*Beebe*]; Senchal, Darjiling District, 8000 ft., v-13 [Lord Carmichael coll.], also *type* ♀ from same locality. *Types* in Indian Museum.

brevis, *id.*, *loc. cit.*, 270, ♂ ♀ (1918).
Shillong, 4900 ft., 10—12-x-14 [*Kemp*].
Type in Indian Museum.

jacobsoni Edw., Jour. Fed. Malay Sts. Mus., VIII, 12, ♀ pl. iv, 9, wing (1919).
? *Tipula* sp. de Meij., Tijd. v. Ent. LIV, 71 (1911).
Korinchi Peak, Sumatra, 7300 ft. v-1914, a unique ♀.

korinchiensis Edw., Jour. Fed. Malay Sts. Mus. VIII, 13, ♀ (1919).
Sungei Kumbang, Korinchi, 4500 ft., Sumatra, iv-1914.

robinsoni Edw., *loc. cit.* 14, ♂ ♀ (1919) pl. iii, 3 *a*, *b*, genitalia.
Sandaran Agong, Korinchi, 2450 ft., iv—v-1914, a single pair in cop.

Longurio, Lw.

Berl. Ent. Zeits. XIII, 3 (1869).
GENOTYPE, *L. testaceus*, *id.*, sp. nov., *loc. cit.*

rubriceps Edw., Ann. Mag. Nat Hist. (8) XVIII, 261, ♂ pl. xii, 9, genitalia (1916).
Shinten, Formosa, 400 ft. [*Shiraki*].
Unique *type* in British Museum.

Brithura, Edw.

Ann. Mag. Nat. Hist. (8) XVIII, 262 (1916).
GENOTYPE, *B. conifrons* Edw., sp. nov.

conifrons Edw., *loc. cit.*, 263, ♂. pl. xii, 10—11, genitalia (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Unique *type* in British Museum.

crassa, *id.*, *loc. cit.*, 264, ♂ (1916).
"East Indies" (? India). Unique *type* in British Museum.

Pachyrhina Macq.

Hist. Nat. Dipt. I, 88 (1834).
Sch., F. Austr. II, 503: de Meij., Tijd. v. Ent. LIV, 72, notes: Brun., Rec. Ind. Mus. VI, 262, notes Orient, spp.: *id.*, Fauna Brit. Ind., 339. GENOTYPE, *Tipula crocata* L., by Westwood's designation.

javana Wied., Dipt. Exot. I, 27, ♂ (*Tipula*) (1821).
Id., Auss. Zweifl. I, 57, ♂ (*Tipula*): Brun., Rec. Ind. Mus. VI, 262 (*Pachyrhina*).
Java. *Type* in Westermann's collection. Specimens taken at Coonoor by Mr. Howlett, 4 and 5, ix-11, ♂ ♂, and 1 and 4-ix-11, ♀ ♀, may be this species.

bombayensis Macq., Dipt. Exot. Supp. V, 35, ♂, pl. i, 1, wing (1854).
Wulp, Tijid. v. Ent. XXIII, 158: *id.*, Mid. Sumat. Exped. Dipt., 11: de Meij., Tijd. v. Ent. LIV, 79: Brun., Rec. Ind. Mus. VI, 263: *id.*, Fauna Brit. Ind., 351, ♂ ♀.
Bombay; Pusa (nearly all the year round), Chapra, Bengal; Katihar, 7—31-viii-10 [*Paiva*]; Damukdia Ghat, N. Bengal; Calcutta [*Annandale*]; Bandong, Java, vi; Tandjong Priok, Java [both *Jacobson*]. *Type* in Bigot coll.

delta Walk., Ins. Saund., Dipt. pt. v, 445, ♀ (1856).
Brun., Rec. Ind. Mus. VI, 263.
East Indies. *Type* in British Museum.
Van der Wulp quotes East India in his catalogue, but my information from an examination of the *type* is that it is from the East Indies.

javensis Dol. (nec *javana*, W.), Nat. Tijd. Ned. Ind. X, 406 (*Tipula*), pl. iii, 2, full insect, head, profile (1856).
Brun., Fauna Brit. Ind., 348, ♀ redescr.: Edw., Ann. Mag. Nat. Hist. (8) XVIII, 266, notes: Brun., Rec. Ind. Mus. XV, 274.
doleschalli, Ost. Sack., Ann. Mus. Gen. XVI, 399, ♀ (1881): de Meij., Tijd. v. Ent. LIV, 77: Brun., Rec. Ind. Mus. VI, 263, 264, notes: Alex, Proc. U.S. Nat. Mus. 190, pl. xlvi, 45, wing.
fallax, de Meij., Bijd. tot de Dierk. XVII, 90, ♂ ♀ (1904). (de Meij., Tijd. v. Ent. LIV, 77: 1911).
? *fasciata* Macq., Hist. Nat. Dipt. I, 90, ♂ (1834).
Naini Tal Distr., 3—4-iv-10; Coonoor, S. Ind., 1 and 4-ix-11 [*Howlett*]; Ceylon; Tura, Garo Hills, ix, x-17 [*Kemp*]; Djokjakarta; Pangerando, x; Wonosobo, iv [both Java and

Jacobson]; Buitenzorg, vi-09; Tjibodas, Mt. Gedé, iv-09 [*Bryant* and *Palmer*]; Sumatra. *Type* ♂ in Vienna Museum.

tripartita Walk., Proc. Linn. Soc. Lond. V, 231, ♂ (1861).
Papua. *Type*, location unknown, probably lost.

tenuis, *id.*, *loc. cit.*, VIII, 106, ♂ (1865).
Papua. *Type*, location unknown, probably lost.

colorata, *id.*, *loc. cit.*, VIII, 131, ♀ (1865).
de Meij., Tijd. v. Ent. LIV, 77: Brun., Rec. Ind. Mus. VI, 263.
Salawatti; Dutch South Papua (Digul Fluss).
Type, location unknown, probably lost.
De Meijere records a ♀ from Dutch South Papua which is probably of this species.

familiaris Ost. Sack., Ann. Mus. Gen. XVI, 401, ♂ ♀ (1880).
de Meij., Tijd. v. Ent. LIV, 74 (augmented description): Brun., Rec. Ind. Mus. VI, 263.
Sumatra; Pulu Babi Is. off W. Coast Sumatra, iv; Java; Wonosobo, Java, v [*Jacobson*]. *Types* in Genoa Museum.

melanura Ost. Sack., Ann. Mus. Gen. XVI, 401, ♀ (1880).
Papua. *Type* in Genoa Museum.

laconica, *id.*, Berl. Ent. Zeits. XXVI, 92, ♀ (1882).
Philippines. *Type*, location unknown, a unique specimen.

ortiva, *id.*, *loc. cit.*, 93, ♀ (1882).
Brun., Rec. Ind. Mus. VI, 263.
Philippines. *Type*, location unknown.

nigro-annulata Wulp, Notes Leyd. Mus. VII, 8, ♂ ♀ (1885).
Brun., Rec. Ind. Mus. VI, 264.
Morotai. *Type* ♂ ♀ in Leyden Museum.

quadrivittata, *id.*, *loc. cit.*, 9, ♂ (1885).
Java. *Type* in Leyden Museum.

triplasia, *id.*, *loc. cit.*, 10 ♂ ♀ (1885).
Java. *Type* in Leyden Museum.

immaculata Wulp, Tijd. v. Ent. XXXIV, 196, ♂ (1892).
Java [*t. Wulp*]; Tankoeban Prahoe, Java, vi [*Jacobson*].
var. **pangerangensis** Alex., Proc. U.S. Nat. Mus. XLIX, 190, pl. xlvi, 47, wing (1916).
Pangrango, Java, 9000 ft; Tjibodas, Mt. Gedé, Java, 4500 and 9000 ft. [*Bryant* and *Palmer*].
Type of *immaculata* in Leyden Museum; of *pangerangensis*, No. 19,033, in U.S. Nat. Mus.

virgata Coq., Proc. U.S. Nat. Mus. XXI, 306 (1898).
Edw., Ann. Mag. Nat. Hist. (8) XVIII, 266, notes.

Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]. Described originally from Japan.

dorsalis de Meij., Bijd. tot de Dierk. XVII, 89, ♀ (1904).
Java. *Type* in Amsterdam Museum.

scurroides, *id.*, *loc. cit.*, 90, ♀ (1904).
Id., Tijd. v. Ent. LIV, 75, ♂ (1911).
Java; South Formosa; Wonosobo, Java, iv [*Jacobson*]; Tosari, Java, iii [*Beaufort*]. *Type* in Amsterdam Museum.

dimidiata de Meij., Bijd. tot de Dierk. XVII, 90, ♀ (1904).
Id., Nova Guin. Res. IX, 315.
Java; Alkmaar, Papua, ii. *Type* in Amsterdam Museum.

dorsopunctata Brun., Rec. Ind. Mus. VI, 265, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 350, ♂ ♀ : Rec. Ind. Mus. XV, 275.
Naini Tal District, 3-v-10; Pashok, Darjiling District, 2000—3500 ft. [*Gravely*]: Siliguri [*Annandale*]; Dinapore, 16-xii-14 to 23-i-15 [*Caunter*]; Katihar, 30-xi-09, *type* ♂; Bhogaon, 20-xii-09; Madhupur, 13-x-09 [all Bengal and *Paiva*]; Pusa, 31-iii; 4-iv-11 [*Gravely*]; 27-xi-14 [*Fletcher*]; Calcutta [*Annandale*]; Maddathorai, Travancore, 17-xi-08, *type* ♀ [*Annandale*]; Ceylon; Assam-Bhutan Frontier, 30-xii-10 [*Kemp*].
Type ♂ ♀ in Indian Museum.
Two ♂ ♂ in the Pusa collection 16-ii and 26-ii-10 bred from larvae in earth from rice-fields at Pusa may be this species.

consimilis Brun., Rec. Ind. Mus. VI, 266, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 346, ♂ ♀ ; Rec. Ind. Mus. XV, 275.
Ghoom, above Darjiling, 6000—7000 ft., 11-vi-14 [*Gravely*]; Darjiling, 7000 ft., 23—28-v-10, *type* ♂ ♀ ; 1-x-08; 17-v—10-vi-17; very common [all *Brunetti*]; Ghumti, Darj. Distr., 4000 ft. [*Gravely*]; 5—10-viii-09 [*Paiva*]; Pashok, Darj. Distr., 2000—3500 ft., 23-iv—11-v-15 [*Gravely*]; Kalimpong, Darj. Distr., 600—4500 ft., 24-iv—10-v-15 [*Gravely*]; Kurseong, 4700—5000 ft., 19-vi-10; 4-ix-09; 19—24-vi-10; 5-vii-08; 5—8-ix-09 [all *Annandale*]; Gangtok, Sikkim, 22-v-05; Bhim Tal., 17—19 ix-06 [*Annandale*]; Mussoorie, 22-v-05 [*Brunetti*]; Tarnab, Peshawar Distr., v-16 [*Fletcher*]; Cherrapunji, Assam, 4400 ft., 2—3-x-14 [*Kemp*]; Shillong, 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*]; x-16 [*Fletcher*].
The species appears generally distributed throughout India. *Type* ♂ ♀ in Indian Museum; *cotypes* in Vienna Museum, Pusa collection and my own.

serricornis Brun., Fauna Brit. Ind., 341 ♂ (1912).
Mussoorie, 7000 ft. [*Brunetti*]; Almora, Kumaon, 5500 ft. [*Paiva*]; Darjiling, 6-viii-09 [*Paiva*]; Kurseong, 4-ix-09, *type* ♂; 5-vii-08; 22—25-vi-10 [*Annandale*]; Sureil, iv—v-17 [*Kemp*]; Gangtok, Sikkim, 6150 ft., 10-ix-09; Siliguri, 18—20-vii-07; Pusa, ii, iii, iv, vii, ix, xii rather common; Lahore, 8-iv-14 [*Lord*]; Shillong, 5000 ft., x-16 [*Fletcher*]; 19-x-11; Tengueh, Yunnan [*Coggin Brown*]. *Type* in Indian Museum.

Some ♂ ♂ taken by me at Yokohama, 20--26-vi-06, are probably the same species.

puncticornis, *id.*, *loc. cit.*, 343, ♂ 1912.
Siliguri, 30-vi-08. *Type* in the Indian Museum.

pleurinotata, *id.*, *loc. cit.*, 343, ♂ ♀ (1912).
Id., Rec. Ind. Mus. XV, 274.
Pusa, 14-iii-13 on guava; Namoya, Ceylon, ix-1909 [*Green*]. *Types* in Indian Museum.

demarcata Brun., Fauna Brit. Ind., 344, ♂ ♀ (1912).
Darjiling, 5—9-viii-09 [*Paiva*]; Kurseong, 5000 ft. [*Annandale*]. *Types* in Indian Museum.

concolorithorax, *id.*, *loc. cit.*, 346, ♂ ♀ (1912).
Sylhet, 18-i-04, *type* ♀ [*Hall*]; Pusa, 21-vi-11 [*Fletcher*]; Shillong [*Kemp*]; Khasi Hills, 1000--3000 ft., iii-07 *type* ♂. *Type* ♂ in Pusa coll.: *type* ♀ in Indian Museum.

gamma, *id.*, *loc. cit.*, 347, ♀ (1912).
Id., Rec. Ind. Mus. XV, 275.
Darjiling to Soom, 6000—7000 ft. [*Lord Carmichael* colln.]; 11 and 12-vi-14 [*Gravely*]; Mangaldai Distr., Assam-Bhutan Frontier, 30—31-xii-10, *type* ♀ [*Kemp*].
Type in Indian Museum.

speculata de Meij., Nova Guin. Res. IX, 314, ♀ (1913).
Alkmaar, Papua, xii, ii. Unique *type* in Amsterdam Museum.

ochripleuris de Meij., Tijd. v. Ent. LVI, Supp. p. 6, ♂ ♀ (1913) (Mar. 1914).
Alex., Proc. U.S. Nat. Mus. XLIX, pl. xlvi, 46, wing.
Java; Tjibodas, Mt. Gedé, Java, 26-viii-09, 7000 ft. [*Bryant* and *Palmer*]. *Type* in Amsterdam Museum.

citrina Edw., Ann. Mag. Nat. Hist. (8) XVIII, 265, ♀ (1916).
Taihoku, Formosa [*Shiraki*].
Unique *type* in British Museum.

parva Edw., *loc. cit.*, 266, ♂ (1916)
Arisan, Formosa, 10-x-12 [*Nitobe*].
Unique *type* in British Museum.

formosensis Edw., *loc. cit.*, 267, ♀ (1916).
Kannotu, Formosa [*Nitobe*].
Unique *type* in British Museum.

fuscoflava Brun., Rec. Ind. Mus. XV, 275, ♀ (1918).
Dungagali, 8000 ft. 21—24-v-15.
Type sent to British Museum, *cotype* in Pusa collection.

parvinotata, *id.*, *loc. cit.*, 276, ♂ ♀ (1918).
Taru, Peshawar Distr., 16—29-v-15, *type* ♂ ♀; Haripur Hazara, N.W. Frontier, 27-v-15 [*Fletcher*].
Types sent to British Museum, *cotypes* in Pusa collection.

hypocrites, *id.*, *loc. cit.*, 276, ♂ ♀ (1918).
Sureil, Darjiling District, 5000 ft., iv—v-17 [*Kemp*].
Types in Indian Museum.

Section DOLICHOPEZINI.[1]

Scamboneura, Ost. Sack.

Berl. Ent. Zeits. XXVI, 95 (1882).
GENOTYPE, *S. dotata*, the original species.

vittifrons Walk., Proc. Linn. Soc. Lond. V, 144, ♀ (*Limnobia*) (1861).
Brun., Rec. Ind. Mus. VI, 267.
Amboina.
Type, reduced to a fragment, in British Museum.

dotata Ost. Sack., Berl. Ent. Zeits. XXVI, 95, fig. 1, ♂ (1882).
Philippines. Location of *type* unknown.

quadrata de Meij., Tijd. v. Ent. LVI, Supp. p. 8, 1913 (Mar. 1914).
Java. *Type* in Amsterdam Museum.

Megistocera, Wied.

Dipt. Exot. I, 41 (*Mackistocera*) (1821).
Wied., Auss. Zweifl. I, 55: Ost. Sack., Berl. Ent. Zeits. XXX, 158 (recharacterisation of genus and notes).
GENOTYPE, *Tipula filipes* F., the second species included by Wiedemann, by designation of Macquart, Dipt. Exot. I, 59.

fuscana Wied., Dipt. Exot. I, 29, ♀ (*Nematocera*) (1821).
Id., *loc. cit.*, 41, ♀ (*Mackistocera*): *id.*, Auss. Zweifl. I, 55, ♀ : Macq., Hist. Nat. Dipt. I, 114, ♂, pl. ii, 15, full insect: *id.*, Dipt. Exot., Supp. I, 18, pl. ii, 4, wing: Ost. Sack., Ann: Mus. Gen. XVI, 399: Wulp, Notes Leyd. Mus. VII, 3: *id.*, Tijd. v. Ent. XXVIII, 83, pl. iv, 4: Ender., Zool. Jahr. XXXII, 30, figs., wing (1912): Brun., Rec. Ind. Mus. VI. 267.
Batavia, viii—xi; Bandong, vi [both *Jacobson*]; Celebes; Sumatra; Aru Is.
Type in Westermann's collection (Vienna Museum).

[1] For characters and comparison see Ost. Sack., Monog. Dipt. N. Amer. IV 2 9, and Brun., Fauna Brit. Ind., 353.

Mitopeza, Edw.

Ann. Mag. Nat. Hist. (8) XVII, 349 (1916).
GENOTYPE, *M. nitidirostris* Edw., sp. nov.

nitidirostris Edw., *loc. cit.*, p. 350, ♀, fig. 1, p. 356, genitalia (1916).
Kedah Peak, 3200 ft., Malay Peninsula [*Stanton*].
The unique *type* in the British Museum.

Nesopeza, Alex.

Can. Ent. XLVI, 157 (1914).
GENOTYPE, *Dolichopeza gracilis* de Meij.

gracilis de Meij., Tijd. v. Ent. LIV, 60, ♂, pl. iv, 46, wing (*Dolichopeza*) (1911).
Wonosobo, Java, v; Tjibodas, Mt. Gedé, Java, 4500 ft. [*Bryant* and *Palmer*]. *Type* in Amsterdam Museum.

albitarsis Brun., Rec. Ind. Mus. XV, 278, ♂ ♀, pl. vii, 1, wing (1918).
Lebong, 6000—6600 ft., 13-vi-14, *type* ♂ [*Gravely*]; between Darjiling and Soom, 5000—7000 ft., 14-vi-14 [*Gravely*].
The *types*, a unique pair, in Indian Museum.

longicornis, *id.*, *loc. cit.*, 278, ♂ (1918).
Above Tura, Garo Hills, 3500—3900 ft., vii-1917 [*Kemp*]. *Type* in Indian Museum.

picticornis, *id.*, *loc. cit.*, 279, ♂ (1918).
Inle, Southern Shan States, 3000 ft., 18-ii-17 [*Gravely*]. *Type* in Indian Museum.

Dolichopeza, Curt.

Brit. Ent., 62 (1825).

Sch., F. Austr. II, 525: Ost. Sack., Berl. Ent. Zeits. XXX, 157: Brun., Fauna Brit. Ind., 353.
GENOTYPE, *D. sylvicola* Curt.,[1] by original designation.

Leptina, Mg., Sys. Besch. VI, 283, pl. lxv, 10, in text as *Dolichopeza*, on plate as *Leptina* (1830).

Apeilesis, Macq., Dipt. Exot. Supp. I, 8, pl. i, 3 (1846): *id.*, Ost. Sack., Berl. Ent. Zeits. XXX, 158.
GENOTYPE, *A. cinerea*, sp. nov., by original designation.

[1] Some desire to change this name to *albipes*, Strom, but *sylvicola* has stood so long unchallenged that I decline to accept any alteration.

orientalis Brun., Fauna Brit. Ind., 354, ♂ ♀, pl. v, 19, wing (1912).
Darjiling, 7000 ft., 4-vi-17 [*Brunetti*]; 11-vi-14 [*Gravely*]; Kurseong, 8 vii-08, *type* ♂; 4-ix-09; 22-vi-10, *type* ♀ [*Annandale*]; Tura, Garo Hills, viii-17 [*Kemp*]; Ginting Bidai, Federated Malay States, iv-17 [*Boden Kloss*].
Types in Indian Museum.

obscura, *id.*, *loc. cit.*, 355, ♂ ♀ (1912).
Kurseong, 4700 ft., 14-iv-11, *type* ♂, 29-vi-10, *type* ♀ [both *Annandale*]; Lebong, 6000—6600 ft. [*Lord Carmichael* colln.].
Types in Indian Museum.

postica *id.*, *loc. cit.*, App. 564, ♂ ♀ (1912).
Ghumti, Darjiling Distr., 6000 ft., vii-1911, including ♂ ♀ *in cop.* [*Gravely*]: Tura, Garo Hills, viii-17 [*Kemp*].
Types in the Indian Museum.

infuscata, *id.*, *loc. cit.*, App. 565, ♂ (1912).
Nilgiri Hills, 6000 ft., v-1911 [Andrewes].
Type in Indian Museum, a unique specimen.

costalis Brun., Rec. Ind. Mus. XV, 277, ♂, pl. viii, 6, wing (1918).
Kavalai, Cochin State, 1300—3000 ft., 24—27-ix-14 [*Gravely*].
Unique *type* in Indian Museum.

pallidithorax de Meij., Tijd. v. Ent. LVI, Supp., p. 4, ♂; pl. i, 3. 1913 (Mar. 1914).
Java. *Type* in Amsterdam Museum.

Sub-family *LIMNOBIINAE*.

Section CYLINDROTOMINI.[1]

Stibadocera, Ender.

Zool. Jahr. XXXII, 83 (1912).
GENOTYPE, *S. bullans* Ender., by original designation.

quadricellula Brun., Rec. Ind. Mus. VI, 268, ♂ (*Cylindrotoma*) (1911).
Id., Fauna Brit. Ind., 361, ♂, pl. vii, 1, antenna, 2, wing.
Kurseong, 18-v-10, *type*, 23-vi-10; 6-vii-08 [*Annandale*].
Type in Indian Museum.

bullans Ender., Zool. Jahr. XXXII, 84, ♂, fig. A 2, wing (1912).
Sumatra (Liangagos).
Type, a unique ♂, in Stettin Museum.

metallica Alex., Proc. U.S. Nat. Mus. XLIX, 178, pl. xlv, 30, wing (1916).

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[1] For characters and comparisons *v.* Ost. Sac., Monog. Dipt. N. Amer. IV, 289 and Brun., Fauna, 353 *id.*, Rec. Ind. Mus. XV, 280 on generic characters.

Tjibodas, Mt. Gedé, Java, 9000 ft. [*Bryant* and *Palmer*]; Pangranggo, Java. *Type*, No. 19,026, in U S. Nat. Mus.

Stibadocerella, Brun.

Rec. Ind. Mus. XV, 283 (1918).
GENOTYPE, *S. pristina*, *id.*, sp. nov., *loc. cit.*

pristina Brun., *loc. cit.*, 283, ♂ ♀ (1918).
Tura, Garo Hills, 3500—3900, vii-17 [*Kemp*].
Type in Indian Museum.

N.B.—In my second paper on Oriental Tipulidae a "new species *latefurcata*" (of *Cylindrotoma*) is mentioned. This was a MS. name for *pristina*, and referred to the late bifurcation of the second and third veins. On establishing *Stibadocerella* the name *bifurcata* was not so applicable, but in one instance the MS. name by oversight was not changed.

Section LIMNOBIINI.[1]

Dicranomyia, Steph.

Cat. Brit. Ins. II, 243 (1829).
Sch., F. Austr. II, 565, as *Limnobia*, pt.: Ost. Sack., Monog. Dipt. N. Amer. IV, 53: *id.*, Berl. Ent. Zeits. XXXI, 172: Brun., Fauna Brit. Ind., 363.
GENOTYPE, *Limnobia modesta* Mg., designated by Coquillett, 1910.
Siagona, Mg., Syst. Besch. VI, pl. lxv, 7 (1830).
GENOTYPE, *Glochina sericata* Mg., by original designation.
Numantia, Big., pt., Ann. Soc. Ent. Fran. (3) II, 470 (1854).
GENOTYPE, *Limnobia fusca* Mg., by Coquillett's designation.
Thrypticomyia, Skuse, Proc. Linn. Soc. N.S. Wales (2) IV, 775, pl. xxi, 6, xxiv, 44, 45 (1890).
GENOTYPE, *T. auripennis*, *id.*, sp. nov., *loc. cit.*
? *Glochina*, Mg., Syst. Besch. VI, 280, pl. lxv, 7 (as *Siagona* on plate) (1830).

saltens[2] Dol., Nat. Tijd. Ned. Ind. XIV, 390, pl. ii, 3 (*Limnobia*) (1857).
Ost. Sack., Berl. Ent. Zeits. XXVI, 88: de Meij., Tijd. v. Ent. LIV, 22, pl. i, 1, wing: Brun., Rec. Ind. Mus. VI, 269: *id.*, Fauna Brit. Ind., 373, ♂ ♀.

[1] For table of oriental genera, *v.* Brun., Fauna, 363.

[2] Sometimes (erroneously) spelt *saltans*. If the genus *Thrypticomyia*, Skuse, be valid, *saltens*, *kobusi*, *cuneiformis*, *longivena*, *absens* and *bicinctipes* come in it.

Travancore, 14-xi-09 [*Annandale*]; Cherambadi, Wynaad, S. India, x-13 [*Fletcher*]; Dibrugarh, Assam, 17—19-xi-11 [*Kemp*]; Java (var. locs.). *Type*: location unknown to me.

This species may possibly be synonymous with *Limnobia apicalis*, Wied.

kobusi de Meij., Bijd. tot de Dierk. XVII, 91, pl. viii, 5, wing, 6, tip of leg (1904).

Brun., Rec. Ind. Mus. VI, 270: *id.*, Fauna Brit Ind., 371, ♂ ♀: de Meij., Tijd. v. Ent. LVI, 343, pl. xvi, 8, ♂ genitalia.

Kurseong, 20—25-vi-10; 5-vii-08, including ♂ ♀ in cop. [*Annandale*]; Lebong, 6000—6600 ft., 13-vi-14; Nedumangad, Travancore [*Annandale*]; Dibrugarh, Assam (Abor. Exped.) [*Kemp*]; Nusa, Kambangan, Java, iii [*Jacobson*].

Types ♂ ♀ in Amsterdam Museum.

pulchra de Meij., Bijd. tot de Dierk. XVII, 92, ♀, pl. viii, 7, full ins. (*Rhipidia*, *id.*) (1904).

Id., Tijd. v. Ent. LIV, 27, pl. ii, 14—16 antennae, ♂ ♀ genitalia (*Dicranomyia*, *id.*): Brun., Rec. Ind. Mus. VI, 240.

Batavia, ii, x; Semarang, ii [both *Jacobson*].

Type in Amsterdam Museum.

cuneiformis de Meij., Tijd. v. Ent. LIV, 23, ♂, pl. i, 2, wing (1911).

Brun., Rec. Ind. Mus. VI, 270; XV, 284: *id.*, Fauna Brit. Ind., 372, ♂ ♀.

Talewaddi, Castle Rock, N. Kanara Dist., 10-x-16 [*Kemp*]; Dawna Hills, 2000—3000 ft., 2—3-iii-08 [*Annandale*]; Wonosobo, Java, iv [*Jacobson*].

Type ♂ in Amsterdam Museum; the ♀ from which I described this sex in Indian Museum.

convergens de Meij., Tijd. v. Ent. LIV, 24, ♂ ♀, pl. i, 3—6, wing, and ♂ ♀, genitalia (1911).

Tosari [*Kobus*]; Semarang, ii; Tankuban Prahu [both *Jacobson*, all Java]. *Types* in Amsterdam Museum.

umbrata, *id.*, *loc. cit.*, 25, ♂ ♀, pl. i, 7, wing (1911).

Id., Tijd. v. Ent. LVI, 343, pl. xlvi, 9, 10, ♂ genitalia.

Semarang, xii; Batavia and environs, x, xi [*Jacobson* and *Dr. Rogge*]. *Types* in Amsterdam Museum.

punctulata, *id.*, Tijd. v. Ent. LIV, 26, ♂; pl. i, 8, wing, 9, ♂ genitalia (1911).[1]

Semarang, i; Wonosobo, v [*Jacobson*].

Type in Amsterdam Museum.

nervosa, *id.*, *loc. cit.*, 26, ♀, pl. i, 10, wing (1911).

Wonosobo, Java, v [*Jacobson*].

Type, a unique ♀, in Amsterdam Museum.

[1] De Meijere employs both sex signs at the beginning of his description though he stated his specimen to be unique. Probably only the ♂ sex was before him.

tenella, *id.*, *loc. cit.*, 27, ♂ ♀, pl. i, 11—13, wing, ♀ genitalia (1911).
Pangerango, Java, x; Semarang, xi [both *Jacobson*].
Types in Amsterdam Museum, a unique pair.

longivena, Edwards, Ann. Mag. Nat. Hist. (8) VIII, 59, ♀ (1911).
Brun., Fauna Brit. Ind., 374, ♀.
Dondra, Ceylon, 3-xii-07 [*Fletcher*].
Type in British Museum.

marmoripennis Brun., Fauna Brit. Ind., 369, ♂ ♀, pl. vii, 3, wing (1912).
Darjiling, 16-vi-14 [*Gravely*]; 8-viii-09 [*Paiva*]; 3— 9-vi-06 [*Howlett*]; Kurseong, 5-ix-09, *type* ♂ ♀ [*Annandale*]; Katihar, 7—31-viii-10 [*Paiva*]; Pusa, 29-vi-11; 1-viii-11 sweeping grass [both *Howlett*]; Bangalore, 3000 ft. [*Annandale*]; Shillong, x-16 [*Fletcher*]; 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*]; Lashio, Upper Burma, 3000 ft., 23, 24-viii-14 [*Fletcher*]; Kobo, Assam (Abor Exped.), 400 ft., 2—3-xii-11 [*Kemp*]. *Types* in Indian Museum.

demarcata, *id.*, *loc. cit.*, 370, ♀ (1912).
Kurseong, 15-iv-11 [*Annandale*]. *Type* in Indian Museum.

absens, *id.*, *loc. cit.*, 372, ♀, pl. vii, 4, wing (1912).
Darjiling, 5-viii-09 [*Paiva*]; Kurseong, 25-vi-10, *type* [*Annandale*]; Hakgala, Ceylon. *Type* in Indian Museum.

Two ♂ ♂ and two ♀ ♀ taken by me at Darjiling are probably this species, two have the discal cell open (specific character) and two have it closed.

pulchripennis, *id.*, *loc. cit.*, 376, ♂ ♀, pl. vii, 8, wing; xi, 2, ♂ genitalia (1912).
Mussoorie, 18-vi-05; 17-viii-05 [both *Brunetti*]; Simla, x-08; Bhowali, 5700 ft., x-09 [*Imms*]; Kangra Valley, W. Himalayas [*Dudgeon*]; Kurseong [*Annandale*]; Shillong, 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*]; x-16 [*Fletcher*].
Types in Indian Museum; *cotypes* in my collection.

puncticosta, *id.*, *loc. cit.*, 377, ♂ ♀, pl. vii, 7, wing (1912).
Kurseong, 4-ix-09, type ♂ [*Annandale*]; Darjiling, 8-viii-09, type ♀ [*Paiva*]. *Types* in Indian Museum.

fraterna, *id.*, *loc. cit.*, 378, ♀, pl. vii-5, wing (1912).
Darjiling, 5—8-viii-09 [*Paiva*]. *Type* in Indian Museum.

fascipennis, *id.*, *loc. cit.*, 379, ♀, pl. vii, 9, wing (1912).
Almora, Kumaon, 5500 ft., 24-vi-11, *type* [*Paiva*], 17—19-ix-11 [*Paiva*]; Pusa, in spiders' webs, 1-i-14 [*Howlett*]; Kurseong, 5-vii-08, *type* ♀ [*Annandale*]; Shillong, 29-viii—5-ix-15 [*Kemp*]; Coonoor, at light, 4-ix-11; Peradeniya [*Gravely*].
Types in Indian Museum.

subfascipennis, *id.*, *loc. cit.*, 380, ♂ ♀, pl. vii, 6, wing (1912).
Kurseong, 4-vii-08 [*Annandale*]; Ghumti, 4000 ft. [*Gravely*]. *Types* in Indian Museum.

ornatipes, *id.*, *loc. cit.*, 380, ♂, pl. vii, 10, wing (1912).
Vaikam, Travancore, 5-xi-08, *type* [*Annandale*]; Balighai, near Puri, 24-x-08; Khurda Rd., Orissa; Dawna Hills, 2000—3000 ft., 2—3-iii-08 [all *Annandale*]. *Type* in Indian Museum.

cinerascens, *id.*, *loc. cit.*, 381, ♂ ♀, pl. vii, 11 (1912).
Darjiling, 8-iv-10, *type* ♂; 10—20-x 05 [*Brunetti*]; 7000 ft. [*Beebe*]; Kurseong, 24-iii-10, *type* ♀. *Type* in Indian Museum.

sordida, *id.*, *loc. cit.*, 382 (1912).
Kurseong, 4-ix-09, *type* ♂; 9-ix-09 [*Annandale*]; Darjiling, 7-viii-09, *type* ♀ [*Paiva*]. *Type* in Indian Museum.

delicata, *id.*, *loc. cit.*, 383, ♂ ♀ (1912).
Darjiling, 6-viii-09, *type* ♂, 9-viii-09, *type* ♀ [both *Paiva*]. *Types* in Indian Museum.

flavobrunnea, *id.*, *loc. cit.*, 384, ♂ ♀ (1912).
Calcutta, 18-xi-07, *type* ♂ ♀; "at light," 9-vi-07; 6 xi-07; 20-xii-07; Purulia, Manbhum Distr., Chota Nagpur, 10-ii-12 [*Annandale* and *Gravely*]; Tenmalai, Travancore [*Annandale*]. *Types* in Indian Museum.

simplex, *id.*, *loc. cit.*, 384, ♀ (1912).
Calcutta, 6-xi-10 [*Gravely*]; Shillong, Khasi Hills, 5500—6400 ft. [*Kemp*]. *Type* in Indian Museum.

fortis, *id.*, *loc. cit.*, 385, ♂ (1912).
Darjiling, 6-viii-09, *type* [*Paiva*]; 9-viii-09 [*Brunetti*]. *Type* in Indian Museum.

nigrithorax, *id.*, *loc. cit.*, 385, ♂ (1912).
Darjiling, 28-vi-10, *type*; 26-v-10 [all *Brunetti*]. *Type* in Indian Museum.

subtessellata, *id.*, *loc. cit.*, App., 565, ♂ ♀ (1912).
Pattipola, Ceylon, 6000 ft., 14-x 11 [*Annandale*]; Castle Rock, Goa, 11—26-x-16 [*Kemp*]. *Types* in Indian Museum.

bicinctipes, *id.*, *loc. cit.*, App., 566, ♂ (1912): Rec. Ind. Mus. VII, 447.[1]
"Thingannyinaung to Sukli," Dawna Hills, 900—2100 ft., 23—27-xi-11 [*Gravely*]. *Type* in Indian Museum.

columbina, *id.*, *loc. cit.*, App., 567, ♀ (1912).
Peradeniya, 22-vii-10, *type*; 7-ii-10; 3-x-10 [*Green*]; Shillong [*Kemp*]. *Type* in Indian Museum.

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[1] The first reference antedates the second by about a month. The species comes in the *Thrypticomyia* group.

approximata, *id.*, *loc. cit.*, App., 567, ♀ (1912).
Ghumti, Darjiling Distr., 4000 ft., vii-1911 [*Gravely*].
Type in Indian Museum, a unique ♀.

innocens, *id.*, *loc. cit.*, App. 568, ♂ ♀ (1912).
Almora, Kumaon Div., 18—25-vi-11 [*Paiva*].
Types in Indian Museum.

debeauforti de Meij., Bijd. tot de Dierk. XIX, 47, ♂ ♀ (1913).
Saonek, xii, i. *Types* in Amsterdam Museum.

alta de Meij., Tijd. v. Ent. LVI, 341, ♂, pl. xvi, 6, wing (1913).
Gunung Ungaren, ix [*Jacobson*].
Type, a unique ♂, in Amsterdam Museum.

nongkodjadjarensis, *id.*, *loc. cit.*, 343, ♂, pl. xvi, 7, wing (1913).
Nongkodjadjar, Java, i [*Jacobson*].
Type, a unique ♂, in Amsterdam Museum.

novae-guineae, *id.*, *loc. cit.*, LVIII, 101 (*Thrypticomyia*) (1915).
Hollandia, North Papua *Type* in Amsterdam Museum.

tinctipennis, *id.*, *loc. cit.*, LVIII, Supp. 66 (1916).
Fort de Kock, Sumatra. *Type* in Amsterdam Museum.

fullowayi Alex., Can. Ent. LVII, 79 (1915).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]. Described originally from the Ladrones Islands.

alticola Edw., Ann. Mag. Nat. Hist. (8) XVIII, 246, ♀, pl. xii, 1, genitalia (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]; Horisha, Formosa. *Type* in British Museum.

albitarsis Alex., Proc. U.S. Nat. Mus. XLIX, 159, ♂; pl. xlii, 1, wing (1916).
Tjibodas, Mt. Gedé, Java, 4500 ft. [*Bryant* and *Palmer*].
Type, Cat. No. 19,007, in U.S. Nat. Mus.

atrescens, *id.*, *loc. cit.*, 160, ♂ (1916).
Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*].
Type, Cat. No. 19,008, in U.S. Nat. Mus.

erythrina, *id.*, *loc. cit.*, 161, ♂, pl. xlii, 2, wing (1916).
Tjibodas, Mt. Gedé, 4500 ft., Java [*Bryant* and *Palmer*].
Type, Cat. No. 19,009, in U.S. Nat. Mus.

excelsa, *id.*, *loc. cit.*, 161, ♂ ♀, pl. xlii, 3, wing (1916).
Pangranggo, Java, 9000 ft., *type* ♂ [*Bryant* and *Palmer*]; Tjibodas, Mt. Gedé, 8000 ft., *type* ♀.
Type, Cat. No. 19,010, in U.S. Nat. Mus.

simplissima, *id.*, *loc. cit*, 162, ♀ pl. xlii, 4, wing (1916).
Tjibodas, Mt. Gedé, Java, 9000 ft. [*Bryant* and *Palmer*].
Type, Cat. No. 19,011, in U.S. Nat. Mus.

carneotincta, *id.*, *loc. cit.*, 162, ♂, pl. xlii, 5, wing (1916).
Singapore [*Bryant* and *Palmer*].
Type, Cat. No 19,012, U.S. Nat. Mus.

bicolor Brun., Rec. Ind. Mus. XV, 285, ♂ (1918).
Cherrapunji, Assam, 4400 ft., 2—8-x-14 [*Kemp*].
Unique *type* in Indian Museum.

prominens, *id.*, *loc. cit.*, 285, ♂ ♀ (1918).
Mormugao, Goa, ix-16 [*Kemp*]. *Types* in Indian Museum.

niveiapicalis, *id.*, *loc. cit.*, 285, ♂ (1918).
N. Kanara Distr., W. India, 11—26-x-16 [*Kemp*].
The unique *type* in the Indian Museum.

pictipes, *id.*, *loc. cit.*, 286, ♂ ♀ (1918).
Mormugao, Goa, ix-16 [*Kemp*]. *Types* in Indian Museum.

Geranomyia, Hal.

Ent. Month. Mag. I, 154 (1833).
Sch., F. Austr. II, 564: Ost Sack., Monog. Dipt. N. Amer. IV, 78; *id.*, Berl. Ent Zeits. XXXI, 173: Brun., Fauna Brit. Ind., 387: *Auctt.*
GENOTYPE, *G. unicolor.* Hal., by original designation.
Limnobiorhynchus, ♀ only, Westw., Ann. Soc Ent. Fran. (1) IV, 683 (1835).
Plettusa, Phil., Verh. Zool. bot. ges. Wien, XV, 597, pl. xxiii, 1 (1865).
GENOTYPE, *P. virescens*, sp. nov., *loc. cit.*

sorbillans W., Auss. Zweifl. I, 551, ♀ (*Limnobia*) (1828).
Brun., Rec. Ind. Mus. VI, 274.
Sumatra. *Types* in Wiedemann's and Trentepohl's collections at Vienna Museum.

nitida de Meij., Tijd. v. Ent. LIV, 28, ♀ (1911).
Alex., Proc. U S. Nat. Mus. XLIX, pl. xlii, 6, wing.
Wonosobo, Java, iv [*Jacobson*]; Batavia, 1-iv-09 [*Bryant* and *Palmer*]. *Type* in Amsterdam Museum.

argentifera de Meij., Tijd. v. Ent. LVI, 29, ♂ ♀, pl. ii, 18, wing, 19, ♂ genitalia (1911).
Semarang, 1-vii [*Jacobson*]. *Types* in Amsterdam Museum.

montana, *id.*, *loc. cit.*, 29, ♂ ♀ (1911).
Pangerango, Java, x [*Jacobson*]. *Type* in Amsterdam Museum.

notata, *id.*, *loc. cit.*, 30, ♀ (1911).
Batavia environs [*Jacobson*]. *Type* in Amsterdam Museum.

fletcheri Edwards, Ann. Mag. Nat. Hist. (8) VIII, No. 43, 60, ♀ (1911).
Brun., Fauna Brit. Ind. VI, 393, ♀.
Madulsima, Ceylon, 19-v-08, *type*; 21-xii-07.
Type in British Museum.

vinaceobrunnea Brun., Rec. Ind. Mus. VI, 274, ♀ (1911).
Id., Fauna Brit. Ind., 392, ♀.
Simla, x-08 [*Howlett*]. *Type* in Pusa collection.

genitalis, *id.*, Rec. Ind. Mus. VI, 275, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 388, ♂ ♀, pl. xi, 7, ♂ genitalia: *id.*, Rec. Ind. Mus. XV, 287.
Pashok Spur, Darjiling, 2000—3500 ft., 25-iv—ii-v-15 [*Gravely*]; Tenmalai, Travancore, 21-xi-08, *type* ♂ [*Annandale*]; Nongpoh, Assam, ix-06, *type* ♀.
Type ♂ in Indian Museum, *type* ♀ in Pusa coll.

semifasciata Brun., Rec. Ind. Mus. VI, 276, ♀ (1911).
Id., Fauna Brit. Ind., 395, ♀, pl. vii, 16, wing.
Darjiling, 3—9-vi-09 [*Howlett*]; Kalimpong, 600—4500 ft. [*Gravely*]; Sureil, iv, v-17 [*Kemp*]; Almora, Kumaon, 5500 ft. [*Paiva*]; Heho, S. Shan States, 7—9-iii-17 [*Gravely*].
Type in Pusa collection.

semistriata Brun., Rec. Ind. Mus. VI, 277, ♀ (1911).
Id.. Fauna Brit. Ind., 394, ♀, pl. vii, 17, wing.
Pashok, Darjiling Distr., 2000—3500 ft. [*Gravely*]; Paresnath, W. Bengal, 4300—4500 ft., 15-iv-09 [*Annandale*]; Talewadi, 3—10-x-16 and Castle Rock [both N. Kanara Dist. and *Kemp*]; Shillong, 4900 ft., 10—12-x-14; Cherrapunji, Assam [both *Kemp*].

flavicosta Brun., Fauna Brit. Ind., 389, ♀, pl. viii, 2, wing, pl. xi, 6, dorsum of thorax (1912).
On board a launch, "at light" off Chandpal, Ganges Delta, 26-viii-09 [*Jenkins*]. *Type*, an incomplete unique specimen in Indian Museum.

circipunctata, *id.*. *loc. cit.*, 390, ♂ ♀, pl. viii, 3, wing, pl. xi, 3, thorax dorsum.
Port Canning [*Annandale*]; Lower Bengal, and Ganges Delta, var. locs., ii, iv, viii, ix, xi, xii (including Sorabkatti), 7-xii-09, *type* ♀, Calcutta; Sonarpur, near Calcutta, 5-ii-10, "at light" in railway carriage, *type* ♂ [*Annandale*]; "at light" on board steam launch off coast of Ganges Delta, var. locs. [*Jenkins*]; Sunderbunds [*Kemp*]; on board ship 10 miles off Masulipatam, Madras Coast, 4—5-iv-08 [*Paiva*]; Puri, 12-xi-10 [*Annandale*].
Types in Indian Museum.

tridens, *id., loc. cit.*, 391, ♂ ♀, pl. viii, 4, wing; pl. xi, 45, thorax (1912).
Ganges Delta, var locs. in the Sunderbunds, including *type* ♂ from Sonadigee, 6-xii-09, and *type* ♀ from Chennia, 11-xi-09, all "at light" on steam launch *Types* in Indian Museum.

pulchripennis, *id., loc. cit.*, 393, ♀, pl. viii, 1, wing (1912).
Kurseong, 7-ix-09 [*Annandale*]; Shillong, 6400, 12-x-14 [*Kemp*]. *Type*, a unique ♀, in Indian Museum.

notatipennis, *id.*, Rec. Ind. Mus. VIII, 152, ♂, pl. vi, 1, wing (1913).
Dibrugarh, N.E. Assam, 17—19-xi-11 [*Kemp*].
Type, a unique specimen, in Indian Museum.

decemguttata de Meij., Tijd. v. Ent. LVI, 345, ♂ ♀, pl. xvii, 11, wing (1913).
Semarang, viii [*Jacobson*].
Types in Amsterdam Museum.

brunnescens de Meij., *loc. cit.*, LVIII, Supp. 10, ♂ (1916).
Sinabang, Simalur Is., Sumatra, ii [*Jacobson*].
Unique *type* in Amsterdam Museum.

septemnotata Edw., Ann. Mag. Nat. Hist. (8) XVIII, 246, ♀ (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].

linearis Alex., Proc. U.S. Nat. Mus. XLIX, 163, ♂; pl. xlii, 7, wing (1916).
Tjibodas, Mt. Gedé, Java, 4500 ft. [*Bryant* and *Palmer*]. Unique *type*, Cat. No. 19,013, in U.S. Nat. Mus.

javanica Alex., *loc. cit.*, 164, ♀; pl. xlii, 8, wing (1916).
Batavia, 1-iv-09 [*Bryant* and *Palmer*].
Unique *type*, Cat. No. 19014, in U.S. Nat. Mus.

cornigera Alex., Ins. Menstr. I, 137 (1914).
Pettit Barracks, Luzon [*Ludlow*]. *Type*: location unknown to present author.

nigronotata Brun., Rec. Ind. Mus. XV, 287, ♀ (1918).
Cherambadi, Wynaad, Malabar Distr., x-13 [*Howlett*]. *Type*, a unique ♀, presented to British Museum.

flaviventris, *id., loc. cit.*, 288, ♂, pl. vii, 2, wing (1918).
Pashok, Darjiling, 3000 ft., 14-vi-16 [*Gravely*].
Type in Indian Museum.

Aporosa,[1] Macq.

In Webb and Berth, Hist. Nat. d'iles Canaries: Entom. Dipt. 100 (1838).
Macq., Dipt. Exot., I, 1, 62 (1838).

[1] *Geranomyia* and *Aporosa* differences: *v.* Brun., Rec. Ind. Mus. XV, 288. Kertesz ranks *Aporosa* as synonymous with *Geranomyia*, but Bergroth more recently keeps them apart. See note on *Elephantomyia*, p. 230.

Genotype, *Geranomyia canariensis* Berg., as *maculipennis*, sp. nov. by Coquillett's designation.

aurantia Brun., Rec. Ind. Mus. XV, 289, ♀ (1918).
Above Tura, Garo Hills, 3,500—3,900 ft., vii-17 [*Kemp*]. *Type* in Indian Museum.

Limnobia, Mg.

Syst. Besch, I, 116 (1818).
Sch., F. Austr. II, 565: Ost. Sack., Monog. Dipt. N. Amer. IV, 84: *id.*, Berl. Ent. Zeits. XXXI, 177: Brun., Fauna Brit. Ind., 396: *Auctt.*
Genotype, *Tipula 3-punctata* F., according to (but not designated by) Coquillett, 1910.
Numantia, Big. pt., Ann. Soc. Ent. Fran. (3) II, 470 (1854).[1]
Limnomyza, Rond., Dipt. Ital. Prod. I, 185 (1856).
Genotype, *Tipula 3-punctata* F., by original designation.

costalis Wied., Anal. ent. 10 (1824).
Id., Auss. Zweifl. I, 35: Brun., Rec. Ind. Mus. VI, 271.
East India. *Type* in Copenhagen Museum, in bad condition. Possibly not a true *Limnobia.* No sex of *type* stated, and now indeterminable.

apicalis W., Auss. Zweifl I, 551, ♂ (1828).
Brun., Rec. Ind. Mus. VI, 271.
Sumatra. Possibly *Dicranomyia saltens*, Dol., is identical with this species.
Type, a fragment, in Winthem's collection, Vienna Museum.

bibula W., Auss. Zweifl., 552, ♀ (1828).
Brun., Rec. Ind. Mus VI, 271.
China. *Type* in Trentepohl's collection, Vienna Museum.
Probably a true *Limnobia*, according to Osten Sacken, but possibly it should have no place in oriental lists.

sanguinea Dol., Nat. Tijd. Ned. Ind. XIV, 391, pl. ii, 5, full insect (1857).
Brun., Rec. Ind. Mus. VI, 271, notes.
Java. *Type*, location unknown to present author.

infixa Walk., Proc. Linn. Soc. Lond. VIII, 104 (1865).
Ost. Sack., Berl. Ent. Zeits. XXXI, 178: Brun., Rec. Ind. Mus. VI, 271.
Papua. *Type* in British Museum, in bad condition.

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[1] See under *Dicranomyia*, p. 212.

cinctiventris Brun., Fauna Brit. Ind., 382, ♀ (*Dicranomyia*) (1912).
vitripennis. id., loc. cit., 405 ♀ (1912).

Kurseong, 15-iv-11, *type, cinctiventris* [*Annandale*]; Darjiling, 30-ix-08 (*type, vitripennis*) 6900 ft. [*Brunetti*]: Mahableshwar, Satara Distr., 4200 ft. [*Gravely*]. *Types* in Indian Museum.

festiva Brun., Fauna Brit. Ind., 400, ♂, pl. vii, 13, wing (1912).
Id., Rec. Ind. Mus. XV, 289.

Darjiling, 7000 ft., 11-vi-14 [*Lord Carmichael's colln.*]; Kurseong, vi-1910. *Type* in Indian Museum.

tinctinervis, *id.*, Faun. Brit. Ind., 401, ♀, pl. vii, 12, wing (1912).
Darjiling, 10-viii-09 [*Paiva*].
Type, a unique ♀, in Indian Museum.

indica, *id., loc. cit.*, 401, ♂ ♀, pl. vii, 15, wing, pl. xi, 1, ♂ genitalia (1912).

Mussoorie, ix-06 [*Howlett*]; Calcutta, not uncommon, Sept. to Feb.; Katihar, 7—31-viii-10; Madhupur, Bengal, 13-x-09 [*Paiva*]; Monghyr, Bihar [*Jenkins*]; Pusa, 18—20-ii-08, on moss; 18-iii-13; 20-ix-13; ix-07; 17-xii-12; Puri [*Paiva*]; Kalyan, Bombay, 7-x-13; Maddathorai, and Nedumangad [both Travancore and *Annandale*]; Ernakulam, Cochin, 11—14-ix-14 [*Gravely*]. *Types* in Indian Museum.

trimaculata, *id., loc. cit.*, 402, ♂ ♀, pl. vii, 16, wing (1912).

Ghumti, 4000 ft. [*Gravely*]; Kurseong, 3—5-vii-08; 18—29-vi-09 [*Annandale*]; on low herbage and "at light"; Lucknow [*Caunter*]; Shillong, 5500—6400 ft. [*Kemp*].
Types in Indian Museum.

longinervis, *id., loc. cit.*, 403, ♀, pl. vii, 14, wing (1912).
Kurseong, 5-ix-09 [*Annandale*].
Type, a unique ♀, in Indian Museum.

centralis, *id., loc. cit.*, 403, ♂ ♀ (1912).
Kurseong, 18—23-vi-10 [*Annandale*].
Types in Indian Museum.

niveipes, *id., loc. cit.*, 404, ♀ (1912).
Darjiling, 28-v-10 [*Brunetti*].
Type, a unique ♀, in Indian Museum.

nigra, *id., loc. cit.*, 404, ♂ ♀ (1912).

Kurseong, 4700—5000 ft. [*Annandale*]; Pallode, Travancore, 15-xi-08 [*Annandale*]; Talewadi, N. Kanara Dist., 3—10-x-16 [*Kemp*]. *Types* in Indian Museum.

triangularis, *id., loc. cit.*, 406, ♀ (1912).
Barogh, Simla Hills, 5000 ft., 10-v-10 [*Annandale*].
Type, a unique specimen, in Indian Museum.

annulifemur de Meij., Tijd. v. Ent. LVI, 344, ♂, pl. xvii, 12, wing (1913).

Nongkodjadjar, Java, i [*Jacobson*]; Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*]; Korinchi, Sumatra, 7300 ft., v-14. *Type*, unique, in Amsterdam Museum.

crocea Edw., Ann. Mag. Nat. Hist. (8) XVII, 353, ♂ (1916).
Sungkie, Siam, 9-ii-02 [*Robinson* and *Annandale*].
Unique *type* in British Museum.

nitobei, *id.*, *loc. cit.*, XVIII, 247, ♂, pl. xii, 2, genitalia (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Unique *type* in British Museum.

flavocincta Brun., Rec. Ind. Mus. XV, 289, ♀ (1918).
Mahabaleshwar, Satara Distr., W. India, 4200 ft., 13—16-iv-12 [*Gravely*]. *Type* in Indian Museum.

marginata, *id.*, *loc. cit.*, XV, 290, ♀, pl. viii, 7, wing (1918).
Mahabaleshwar, Satara Distr., 4,200 ft., 13—16-iv-12 [*Gravely*]. *Type* in Indian Museum.

confinis, *id.*, *loc. cit.*, 290, ♂ ♀ (1918).
Above Tura, Garo Hills, Assam, 3500—3900 ft., vii, viii, 17 [*Kemp*]. *Types* in Indian Museum.

bipunctata, *id.*, *loc. cit.*, 291, ♂ (1918).
Taken in company with the above.

tritincta, *id.*, *loc. cit.*, 291, ♂ ♀, pl. viii, 9, wing (1918).
Taken in company with *L. confinis.*
Type, ♂ ♀ *in cop.*, in Indian Museum.

5-notata, *id.*, *loc. cit.*, 292, ♂, pl. viii, 8, wing (1918).
Taken in company with *L. confinis.*
Unique *type* in Indian Museum.

longipennis, *id.*, *loc. cit.*, 292, ♂ (1918).
Taken in company with *L. confinis.*
Unique *type* in Indian Museum.

nigrescens, *id.*, *loc. cit.*, 293, ♂ (1918).
Taken in company with *L. confinis.*
Type in Indian Museum.

punctithorax, *id.*, *loc. cit.*, 293, ♂, fig. 1, thorax, side view (1918).
Talewadi, N. Kanara Distr., 9—10-x-16 [*Kemp*].
Unique *type* in Indian Museum.

trigonia Edw., Jour. Fed. Malay Sts. Mus. VIII, 15, ♂, pl. iii, fig. 4 *a b*, genitalia; pl. iv, fig. 10, wing (1919).
Siolak Daras, Sumatra, 3000 ft., iii-14, a unique ♂.

striopleura, *id.*, *loc. cit.*, 16, ♀ (1919).
Korinchi Peak, Sumatra, 7300 ft., v-14, a unique ♂.

sp. incert.: **aterrima** Walk., Ins. Saund. Dipt., 434, ♀ (1856).
Brun., Rec. Ind. Mus. VI, 271.
East India.
Type, location unknown, *not* in the British Museum. Osten Sacken has suggested this may be an *Eriocera*.

Rhipidia, Mg.

Syst. Besch. I, 153 (1818).
Sch., F. Austr. II, 564: Ost. Sack., Monog. Dipt. N. Amer. IV, 81: *id.*, Berl. Ent. Zeits. XXXI, 174: *Auctt.*
GENOTYPE, *R. maculata* Mg., by original designation.
Ceratostephanus, Brun., Rec. Ind. Mus. VI, 271 (1911).
GENOTYPE, *C. antennatus*, *id.*, sp. nov., *loc. cit.*

javanensis de Meij., Tijd. v. Ent. LIV, 31, ♂ (1911).
Alex., Proc. U.S. Nat. Mus. XLIX, 164, pl. xlii, 9, wing.
Tosari, Java, iii-1910 [*Beaufort*].
Tjibodas, Mt. Gedé, Jaya, 4500, 8000, 9000 ft.
Type in Amsterdam Museum.

antennatus Brun., Rec. Ind. Mus. VI, 272, ♂ (*Ceratostephanus*) (1911).
Id., Fauna Brit. Ind., 407, ♂, pl. xi, 17, antenna.
Simla, 24-iv-07 [*Annandale*].
Type, a unique ♂, in Indian Museum.

bioculata de Meij., Tijd. v. Ent. LVIII, Supp., 11, ♂ (1913).
Lasikin, Simalur Is., Sumatra, iv.
Unique *type* in Amsterdam Museum.

rostrifera Edw., Ann. Mag. Nat. Hist. (8) XVII, 352, ♂ (1916).
Kedah Peak, 3200 ft., Malay Peninsula [*Stanton*].
Type in British Museum. Originally described from a single specimen but both sexes subsequently received from the same locality: one ♀ from Korinchi Peak, Sumatra.

Atypophthalmus, Brun.

Rec. Ind. Mus. VI, 273 (1911).
Brun., Fauna Brit. India, 408.
GENOTYPE, *A. holopticus* Brun., by original designation.

holopticus Brun., Rec. Ind. Mus. VI, 273 (1911).
Id., Fauna Brit. Ind., 408, ♂ ♀, pl. xi, 9, ♂ genitalia.
Calcutta, 8-ix-10, *type* ♂ in spider's web, 20-viii 09, *type* ♀ in house at night [both *Annandale*].
Types, unique, in Indian Museum.
Alexander queries the validity of this genus and would merge it in *Rhipidia* Mg., but he overlooks the fact that the antennae are of normal cylindrical form and not pectinate.

Goniodineura. Wulp.

Tijd. v. Ent. XXXVIII, 37 (1895).
GENOTYPE, *G. nigriceps*, *id.*, sp. nov., *loc. cit.*

nigriceps Wulp, *loc cit.*, 38, pl. II, 3, ♀ (1895).
Alex., Proc. U S. Nat. Mus. XLIX, 165, pl. xlii, 10, wing.
Java [*t. Wulp*]; Buitenzorg, iii-09 [*Bryant* and *Palmer*]; Pulu Pandjang Is. off W. Coast, Sumatra, ii.
Type lost; originally in Amsterdam Museum.

Dapanoptera, Ost. Sack. in Westw.

Trans. Ent. Soc. Lond., 365 (1881).
Ost. Sack., Berl. Ent. Zeits. XXXI, 178.
GENOTYPE, *Limnobia perdecora* Walk., by my designation.

perdecora Walk., Proc. Linn. Soc. V, 230, ♂ (*Limnobia*) (1861).
Papua. *Type* in British Museum in good condition.

auroatra Walk., *loc. cit.*, VII, 202, ♂ (*Limnobia*) (1864).
Mysol. *Type* in British Museum, in good condition.

plenipennis Walk., *loc. cit.*, VIII, 103, ♂ (*Limnobia*) (1865).
Westw., Trans. Ent. Soc. Lond., 366, pl. xvii, 2 (1881).
Papua. *Type* in British Museum, in fair condition.

latifascia Walk., Proc. Linn. Soc. Lond., VIII 104, ♀ (*Limnobia*) (1865).
Papua. *Type* in British Museum, in good condition.

lorentzi de Meij.. Nov. Guin. Res. IX, 307, ♂ ♀, pl. x, 1, wing (1913).
S.W. Papua; Bivak Is., Regen Is.
Type in Amsterdam Museum.

fascipennis, *id.*, *loc. cit.*, 307, ♂ (1913).
Alkmaar, S.W. Papua. Unique *type* in Amsterdam Museum.

pallida, *id.*, *loc. cit.*, 307, ♂ (1913).
Alkmaar, S.W. Papua, x, 1909. Utakwa River, 4000—6000 ft., Dutch Papua, i, ii-13. *Type* in Amsterdam Museum.

pulchra de Meij., Tijd. v. Ent. LVIII, 103, ♂ (1915).
North Papua.

versteegi de Meij., Nov. Guin. Res. XIII, 52 (1915).
Papua.

Libnotes, Westw.

Trans. Ent. Soc. Lond., 505 (1876).
Ost. Sack., Berl. Ent. Zeits. XXXI, 179, notes and tab. spp.
Brun., Rec. Ind. Mus. VI, 278, notes on oriental spp.: *id.*, Fauna Brit. Ind., 409.
GENOTYPE, *L. thwaitesiana* Westw., by original designation.

impressa Walk., Proc. Linn. Soc. Lond. I, 106, ♀ (*Limnobia*) (1857).

Sarawak. *Type* in British Museum, useless for comparison.

aurantiaca Dol., Nat. Tijd. Ned. Ind. XVII, 78, ♂ (*Limnobia*) (1858).

Ost. Sack., Berl. Ent. Zeits. XXXI, 181: Brun., Rec. Ind. Mus. VI, 278.

Amboina. *Type*, damaged, in Vienna Museum.

imponens Walk., Proc. Linn. Soc. Lond. IV, 92, ♀ (*Limnobia*) (1860).

Makessar. *Type* in British Museum, useless for comparison.

strigivena Walk., *loc. cit.*, V, 229, ♂ (*Limnobia*) (1861).

de Meij., Tijd. v. Ent. LIV, 35, notes: *loc. cit.*, LVI, 346: Brun., Rec. Ind. Mus. VI, 278.

Papua (Dorey). Ungaren, ix; Nongkodjadjar [both Java and *Jacobson*]; Mt. Silak, Java, 15-v-09 [*Bryant* and *Palmer*]. *Type* in British Museum, in bad condition, but the wing markings are sufficiently conspicuous to identify the species. De Meijere (*loc. cit.*) notes the apparent ♀ from Bandong, Java, vi [*Preanger*].

quadrifurca Walk., Proc. Linn. Soc. Lond. V, 230, ♀ (*Limnobia*) (1861).

Papua (Dorey). *Type* in British Museum, in bad condition: the wing markings conspicuous.

innotabilis Walk., *loc. cit.*, VII, 231, ♀ (*Limnobia*) (1864).

Ceram. *Type* in British Museum, in bad condition.

[1] **thwaitesiana** Westw., Trans. Ent. Soc. Lond. 505, ♂, pl. iii, 6 (1876).

L. rufa de Meij., Tijd. v. Ent. LIV, 39, ♀, pl. ii, 24, wing (1911).

Id., Brun., Rec. Ind. Mus. VI, 279 (♂ descr.): *id.*, Fauna Brit. Ind., 414, ♂ ♀.

Ceylon; Semarang, iii [*Jacobson*]; Calcutta, 5-viii-08 [*Annandale*]; Pusa, 17-xi, 2-xii-13, both on bark of jackfruit tree; Peradeniya, 13, 17-vii-10 [*Gravely*]; x, xi, 11 [*t. Edwards*]; Talewadi, N. Kanara dist. [*Kemp*]. *Type* (*thwaitesiana*) in Hope coll., Oxford University Museum, in inferior condition, but recognition possible; *type* of *rufa* in Amsterdam Museum.

notata Wulp, Tijd. v. Ent. XXI, 194, pl. xii, 5, ♂ (1878).

Id., Dipt. Sum. Exp. 12: de Meij., Tijd. v. Ent. LIV, 34 (♀ descr.) (1911); Enderl., Zool. Jahr. XXXII, 82: Brun., Rec. Ind. Mus. VI, 279.

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[1] Omitted by error from my Fauna volume, but *thwaitesiana* was included as *rufa*, Meij.

Sumatra; Laulo, Simalur Is., nr. Sumatra, viii; Semarang, iii, xi [*Jacobson*]; Myithyina, Up. Burma, 30-viii—1-ix-14 [*Fletcher*]; Peradeniya [*Gravely*]; Talewadi [*Kemp*].

Type originally in Amsterdam Museum, now lost; other specimens present.

simplex Ost. Sack., Ann. Mus. Gen. XVI, 402, ♂ (1880).

Ternate. *Type* in Genoa Museum in poor condition, apparently uniqe.

[1] **poeciloptera**, *id.*, *loc. cit.*, 403, ♂ ♀ (1880).

Brun., Rec. Ind. Mus. VI, 279; Enderl., Zool. Jahr. XXXII, 82.

Pangerando, Java, x [*Jacobson*]; Tenggergebirge, Java [*Piepers*]; Sumatra; Pundaluoya, Ceylon [*Green*]; Sinabang, ii; Sibigo, viii, both Simalur Is., off Sumatra. *Types* originally in Genoa Museum, but only one specimen now remains.

semperi Ost. Sack., Berl. Ent. Zeits. XXVI, 88, ♀ (1882).

Philippines. *Type*, unique, originally in Osten Sacken's collection, now apparently lost.

termitina Ost. Sack., *loc. cit.*, 88, ♂ ♀ (1882).

Philippines. *Types*, a unique pair, originally in Osten Sacken's collection, now apparently lost.

familiaris Ost. Sack., *loc. cit.*, 89, ♂ (1882).

de Meij., Tijd. v. Ent. LIV, 37, ♂ ♀ descr., pl. ii, 22, wing: *id.*, Nova Guin. Res. IX, 309: Brun., Rec. Ind. Mus. VI, 279, notes.

Philippines; Wonosobo, Java, v; Batavia, ii [both *Jacobson*]; Riverkamp, S. W. Papua, 12-ii-10 [*Lorentz*]; Sinabang, Simalur Is., off Sumatra, iii.

Type originally in Osten Sacken's collection, now apparently lost.

punctipennis de Meij., Tijd. v. Ent. LIV, 35, ♂ ♀, pl. ii, 20, wing (1911).

Brun., Rec. Ind. Mus. VI, 279: *id.*, Fauna Brit. Ind., 413, ♂ ♀, pl. viii, 6, wing.

Darjiling, 6-viii-09 [*Paiva*]; Kavalai, Cochin, 1300—3000 ft., 24—27-ix-14 [*Gravely*]; Parambikulam, Cochin, 1700—3200 ft., 16—24-ix-14 [*Gravely*]; Talewadi and Castle Rock, N. Kanara Dist. [*Kemp*]; Tura, Garo Hills, vii-17 [*Kemp*]; Mazbat, Assam, 11—15-x-10 [*Kemp*]; Dibrugarh, 17—19-xi-11 [*Kemp*]; Peradeniya, 5-viii-10, 15-x-09 [*Green*; *Gravely*]; Batavia, ii; Wonosobo, iv, Semarang, i [all Java and *Jacobson*].

Type in Amsterdam Museum.

nervosa de Meij., Tijd. v. Ent. LIV, 36, ♂, pl. ii, 21, wing (1911).

Wonosobo, v; Semarang, ii [both Java and *Jacobson*]; Sinabang, ii, vi; Lasikin, iv; Pulu Babi, iv, all off W. Coast Sumatra; Buitenzorg, 9-iv-09 [*Bryant and Palmer*].

Type in Amsterdam Museum.

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[1] Omitted by error from my Fauna volume.

forcipata, *id.*, *loc. cit.*, 38, ♂ ♀, pl. ii, 23, wing (1911).
Wonosobo, Java, iv [*Jacobson*]. *Types* in Amsterdam Museum, a unique pair.

fuscinervis Brun., Fauna Brit. Ind., 411, ♂, pl. viii, 5, wing, pl. xi. 8, ♂ genitalia (1912).
Id., Rec. Ind. Mus. XV, 295.
Darjiling, 9-viii-09 [*Paiva*]; 5-viii-09; 22-ix-08 [*Brunetti*]; Kalimpong, 600—4500 ft. [*Gravely*]; N.E. Ind. Frontier, 4000 ft., 18-iii-12 [*Kemp*]. *Type* in Indian Museum.

notatinervis Brun., Fauna Brit. Ind., 412, ♀, pl. viii, 7, wing (1912).
Kurseong, 6-ix-09 [*Annandale*]; Ghumti, 4000 ft. [*Gravely*]; Pattipola, Ceylon, 6000 ft. [*Annandale*]; Shillong [*Kemp*]. *Type* in Indian Museum.

affinis de Meij., Nova Guin. Res. IX, 308, ♀, pl. x, 2, wing (1913).
Id., Tijd. v. Ent. LVI, 346.
Bivak Is., S.-W. Papua, xii; Gunung Ungaren, ix [*Jacobson*]. *Type* in Amsterdam Museum, unique.

punctatissima de Meij., Tijd. v. Ent. LVIII, 58, ♂ (1915).
North Papua. Unique *type* in Amsterdam Museum.

scutellata Edw., Ann. Mag. Nat. Hist. (8) XVII, 353, ♂ ♀, fig. 2, p. 356, genitalia (1916).
Tahum, Perak-Pahang boundary, 18-i-02 [*Robinson*; *Annandale*].
Type in British Museum.

stantoni, *id.*, *loc. cit.*, 354, ♀ (1916).
Kedah Peak, Malay Peninsula, 3200 ft. [*Stanton*].
Type in British Museum, a unique ♀.

limpida, *id.*, *loc. cit.*, 355, ♀ (1916).
Taken in company with above.
Type, a unique ♀, in British Museum.

lutea, *id.*, *loc. cit.*, 357, ♀ (1916).
Taken in company with *stantoni*.
Type in British Museum, a unique specimen.

transversalis de Meij., Tijd. v. Ent. LIX, 198 (1916).
Gedeh, Java, 1625—2400 metres, v; 1 ♂ [*Konigsberger*] (1916). Unique *type* in Amsterdam Museum.

sumatrana Edw., Jour. Fed. Malay Sts. Mus. VIII, 17, ♂, pl. iii, fig. 5, genitalia; pl. iv, fig. 11, wing (1919).
Korinchi Peak, Sumatra, 7300 ft. v-14; Sungei Kumbang, Sumatra, 4500 ft., iv-14.

regalis Edw., *loc. cit.*, XVIII, 248 (1916).
Taihoku, Formosa [*Shiraki*]. The much damaged unique *type* in British Museum.

montivagans Alex., Proc. U.S. Nat. Mus. XLIX, 166, ♂ ♀, pl. xliii, 12, wing (1916).
Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*]. *Type*, Cat. No. 19,015, in U.S. Nat. Mus.

nigricornis, *id.*, *loc. cit.*, 166, ♂ ♀, pl. xliii, 13, wing (1916).
Tjibodas, Mt. Gedé, Java, 4,500 ft. [*Bryant* and *Palmer*]. *Type*, Cat. No. 19,016, in U.S. Nat. Mus.

opaca Bezzi, Phil. Jour. Sci. XII, Sect. D, 116, ♂ (1917).
Luzon [*Baker*].

marginalis, *id.*, *loc. cit.*, 116, ♂ (1917).
Luzon [*Baker*].

Section RHAMPHIDINI.

Rhamphidia, Mg.

Syst. Besch. VI, 281 (1830).
Sch., F. Austr. II, 558: Ost. Sack., Monog. Dipt. N. Amer. IV, 103: Berl. Ent. Zeits. XXXI, 183: Brun., Fauna Brit. Ind., 416: *Auett. var.*
GENOTYPE, *Limnobia longirostris* Mg., by Westwood's designation (1840).
Megarhina, St. Farg. et Serv., Encyc. Meth. Ins. X, 585 (1825).
GENOTYPE, *Limnobia longirostris* Mg., by original designation.
Helius, *id.*, *loc. cit.*, 831 (1835).
Nom. nov. for *Megarhina* under supposed preoccupation by *Megarhinus* Rob. Desv.
Leptorhina, Steph., Cat. Brit. Ins. II, 243 (1829).
GENOTYPE, unknown to present author.

ferruginosa Brun., Fauna Brit. Ind., 418, ♂, fig. 41, head, profile; pl. viii, 8, wing, pl. xi, 11, ♂ genitalia (1912).
Pashok, Darjiling Distr., 2000—3500 ft., 23-iv—11-v-15 [*Gravely*]; base of Dawna Hills, Lower Burma, 2-iii-08 [*Annandale*]. *Type* in Indian Museum.

unicolor, *id.*, *loc. cit.*, 419, ♂ (1912).
Id., Rec. Ind. Mus. XV, 296.
Darjiling, 7000 ft., 8-viii-09 [*Paiva*].
Type in Indian Museum.

inconspicua Brun., Fauna Brit. Ind., 419, ♂ (1912).
Kurseong, 16-iv-11 [*Annandale*]; Kalimpong, 600—4500 ft., 24-iv—10-v-15 [*Gravely*]; Pachmarhi, 20-ix-13, near waterfall.
Type in Indian Museum.

kambangani de Meij., Tijd. v. Ent. LVI, 346, pl. xvii, 13, wing (1913).
Nusa, Kambangan, an island off S. coast of Java [*Jacobson*]. *Type* in Amsterdam Museum.

apicalis Alex., Proc. U.S. Nat. Mus., XLIX, 167, ♂ ♀ pl. xliii, 15, wing (1916).
Tjibodas, Mt. Gedé, Java, 4500 ft., 8000 ft. [*Bryant* and *Palmer*]. *Type*, No. 19017, in U.S. Nat. Mus.

nigriceps Edw., Ann. Mag. Nat. Hist. (8) XVII, 358, ♂ ♀ ; fig. 3, p. 356, genitalia (1916).
Bukit Besar, Siam, *type* ♂ ; Talum, Perak-Pahang boundary, 18-i-01 [*Robinson* and *Annandale*]. *Types* in British Museum.

rufescens Edw., *loc. cit.*, 358, ♀ (1916).
Bukit Kutu, Selangor, ii-03 [*Durham*].
Type in British Museum.

fratella Brun., Rec. Ind Mus., XV, 296, ♂ ♀ (1918).
Castle Rock, N. Kanara Dist., 11—26-x-16 [*Kemp*]: Ginting Bidai, 2000 ft.; Selangor-Pahang Frontier, Federated Malay States, iv-17 [*C. Boden Kloss*]. *Types* in Indian Museum.

abnormalis Brun., Rec. Ind. Mus., XV, 296, ♀, pl. vii, 3, wing (1918).
Cherrapunji, Assam, 4400 ft., 2—3-x-14 [*Kemp*].
The unique *type* in the Indian Museum.

Subgenus **Eurhamphidia**, Alex.

Proc. U. S. Nat. Mus. XLIX, 168 (1916).
GENOTYPE, *Rhamphidia niveitarsis* Skuse, by original designation.

monticola Edw., Jour. Fed. Malay Sts. Mus., VIII, 18, ♀, pl. iv, fig. 12, wing (1919).
Korinchi Peak, Sumatra, 7300 ft., iv-14.
Type in British Museum.

niveitarsis Skuse, Proc. Linn. Soc. N.S. Wales (2) IV, 791 (*Rhamphidia*) (1889).
Alex., Proc. U.S. Nat. Mus. XLIX, 168, ♂ ♀, pl. xliii, 16, wing.
Tjibodas, Mt. Gedé, 8000, 9,000 ft.; Pangranggo, 9000 ft. [both Java and *Bryant* and *Palmer*].
Type: location unknown to present author.

Sub-genus, **Rhampholimnobia,** Alex.

Proc. U.S. Nat. Mus. XLIX, 169 (1916).
GENOTYPE, *R. reticularis*, *id.*, sp. nov., *loc. cit.*

reticularis Alex., *loc. cit.*, 169, ♀, pl. xliii, 17, wing (1916).
Tjibodas, Mt. Gedé, Java, 4,500 ft. [*Bryant* and *Palmer*].
Type, Cat. No. 19018, in U.S. Nat. Mus.

Limnobiorhynchus, Westw.[1]

Ann. Soc. Ent. Fran. IV, 683, ♀ only (1835).
Brun., Rec. Ind. Mus. XV, 298.
GENOTYPE, *Limnobiorhynchus westwoodi*, *nom. nov.* for *L. brasiliensis*, Westw., sp. nov., ♀ only; by my own designation, 1918.

[1] See Rec. Ind. Mus. XV, 297 on the *Elephantomyia* group.

incertus Brun., Fauna Brit. Ind., 422 ♀ ; pl. viii, 9 wing ; xi, 12, ♀ genitalia (*Toxorhina*) (1912).[1]

Id. Rec. Ind. Mus. XV, 298.

Kurseong, 27-vi-10 [*Annandale*]. Unique *type* in Indian Museum. The genus *Toxorhina* does not now appear to be oriental.[2]

Ceratocheilus, Wesché.

Jour. Linn. Soc. XXX, 358 (1910).

GENOTYPE, *C. winn-sampsoni*, sp. nov., *loc. cit.*, the 1st species, by present designation.

Neostyringomyia, Alex., Canad. Ent. XLIV, 85 (as subgenus of *Styringomyia*) (1912).

GENOTYPE, *Styringomyia cornigera* Speis., by original designation.

Conithorax, Brun., Rec. Ind. Mus. XV, 298 (1918).

GENOTYPE, *C. latifrons*, sp. nov., *loc. cit.*

I have to thank Mr. Chas. Alexander for the above synonymy (*in litt.*). *Ceratocheilus* at its inception was considered by Wesché to represent a new subfamily having affinities with the Ptychopterinae. The exact position of *Styringomyia* is also uncertain. Some authors refer it to the Rhamphidiini, others to the Eriopterini.

latifrons Brun., *loc. cit.* 299, ♀ , fig. 2, antenna, 3, wing (*Conithorax*) (1918).

Bidai, Selangor-Pahang Frontier, Federated Malay States, iv-17 [*C. Boden Kloss*]. Unique *type* in Indian Museum.

brevifrons, *id.*, *loc. cit.*, 300, ♀ (*Conithorax*) (1918).

Above Tura, Garo Hills, 3500—3900, viii-17 [*Kemp*]. Unique *type* in Indian Museum.

Elephantomyia, Ost. Sack.

Proc. Acad. Nat. Sci. Philad. 220 (1859).

Ost. Sack., Monog. Dipt. N. Amer. IV, 106, pl. i, 5, wing, iii, 8, forceps : *id.*, Berl. Ent. Zeits. XXXI, 184 : Brun., Rec. Ind. Mus. XV, 297, *Elephantomyia* group.

GENOTYPE, *E. westwoodi* Ost. Sack. (as *Limnobiorhynchus canadensis*, Westw), by original designation.

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[1] In the note after the description of this species the first sentence is misleading. In the description itself it is stated that the discal cell is open in one wing and closed in the other in the unique type. In penning the phrase commencing "though the discal cell is open, etc. (Fauna, p. 423), I must have overlooked this anomaly and observed only the left wing, in which the cell is open ; and, although this explanation makes the text intelligible, it admittedly does not excuse a want of care in examination. My figure shews the cell closed as it normally is in this genus and as is stated both in my generic description (l.c. p. 421), and in Loew's.

[2] See Rec. Ind. Mus. XV, 300, for discussion.

argento cincta Walk., Proc. Linn. Soc. I, 107, ♀ (*Limnobia*) (1857).
Sarawak. *Type* in British Museum, useless for comparison and apparently unique.

delectata, *id., loc cit.*, VII, 231, ♂ ♀ (*Limnobia*) (1864).
Ceram. *Types* in British Museum, useless except for conspicuous wing markings.

filiformis, *id., loc. cit*, VIII, 131, ♂ (*Limnobia*) (1865).
Salawatti.
Type in British Museum, valueless, apparently unique.

fuscomarginata Ender., Zool. Jahr. XXXII, 64, ♂ fig. N, 1, wing (1912).
Sumatra (Sinabong).
Type, a unique ♂, in Stettin Zoological Museum.

egregia de Meij., Tijd. v. Ent. LVI, 347, ♂, pl. xvii, 14, wing (1913).
Nongkodjadjar, Java, i [*Jacobson*].
Type, a unique ♂, in Amsterdam Museum.

Dicranoptycha, Ost. Sack.

Proc. Acad. Nat. Sci. Philad., 203 and 217 (1859).
Ost. Sack., Monog. Dipt. N. Amer., IV, 116, pl. i, 8, wings.
GENOTYPE, *D. germana* Ost. Sack., by Coquillett's designation.

signaticollis Wulp, Tijd. v. Ent. XXXVIII, 36, pl. ii, 1, ♂ (1895).
Brun., Rec. Ind. Mus. VI, 280.
Java. *Type* lost, originally in Amsterdam Museum.

Orimarga, Ost. Sack.

Monog. Dipt. N. Amer. IV, 120, pl. i, 9, wing (1869).
Ost. Sack, Berl. Ent. Zeits. XXXI, 186: Brun., Fauna Brit. Ind., 423.
GENOTYPE, *Limnobia alpina* Zett., by original designation.
Ninguis, Wallengren, Entom. Tidskr. II, 183 (1881).
GENOTYPE, *Limnobia virgo* Zett., by Coquillett's designation.
? *Spyloptera*, Rond., Dipt. Ital. Prod. I, 181 (1856).

borneensis Brun., Rec. Ind. Mus. VI, 280, ♀ (1911).
Sarawak, 10 miles s. of Kuching, 27-vi-10 [*Beebe*]. *Type* in Indian Museum.

peregrina, *id.*, Fauna Brit. Ind., 424, ♂, pl. viii, 11, wing (1912).
Brun., Rec. Ind. Mus. XV, 309.
Kurseong, 29-vi-10, [*Annandale*]; Ghumti, Darjiling Distr., vii-11 [*Gravely*]; Pashok, 3500 ft. [*Hartless*].
Type, a unique specimen, in Indian Museum.

javana de Meij., Tijd. v. Ent. LVI, 348, ♀, pl. xvii, 15, wing (1913).
Nongkodjadjar, i [*Jacobson*].
Type, a unique ♀, in Amsterdam Museum.

Antocha, Ost. Sack.

Proc. Acad. Nat. Sci. Philad., 219 (1859).
Sch., F. Austr. II, 558.
Ost. Sack., Berl. Ent. Zeits. XXXI, 187; Brun., Fauna Brit. Ind., 425.
GENOTYPE, *A. opalizans* Ost. Sack., as *saxicola* Ost. Sack.
Taphrophila, Rond., Dipt. Ital. Prod. I, 185 (1856).
GENOTYPE, *Limnobia inusta* Mg., by original designation.
Orimargula, Mik., Wien. Ent. Zeitg. II, 198, fig. (1883).
GENOTYPE, *O. alpigena*, sp. nov, *loc. cit.*

indica Brun., Fauna Brit. Ind., 426, ♂ ♀, pl. viii, 12, wing (1912).
Phagu, 12-v-09; Theog., 2-v-07 [all *Annandale*]; Kurseong, 9-ix-09, *type* ♀; 16-iv-11, *type* ♀; Kalimpong, 600—4500 ft., 1—24-iv—10-v-15 [*Gravely*]; Pashok 4500 ft. [*Gravely*]; Almora, Kumaon, 5500 ft., 11—12-vi-11 [*Paiva*]; Darrang Distr., Assam-Bhutan Frontier, 26-xii-10 [*Kemp*].
Type in Indian Museum.

unilineata, *id.*, *loc. cit.*, 427, ♀ (1912).
Mundali, Dehra Dun, 9000 ft., 10-v-10.
Type, unique, in Indian Museum.

javanensis, Alex., Proc. U.S. Nat. Mus. XLIX, 171, ♀, pl. xliii, 18, wing (1916).
Pelaboean Ratoe, Java, 19-x-09; [*Bryant* and *Palmer*].
Type, Cat. No. 19,019, in U.S. Nat. Mus.

Teucholabis, Ost. Sack.

Proc. Acad. Nat. Sci. Philad., 222 (1859).
Ost. Sack., Monog. Dipt. N. Amer. IV, 129, pl. i, 12, wing; pl. iii, 9, forceps: *id.*, Berl. Ent. Zeits. XXVI, 188: *id.*, *loc. cit.*, XXXI, 188: Brun., Fauna Brit. Ind., 427.
GENOTYPE, *T. complexa* Ost. Sack., by original designation.

exclusa Walk., Proc. Linn. Soc. VIII, 105, ♀ (*Limnobia*) (1865).
Papua. *Type* in British Museum, much damaged.

bicolor Ost. Sack., Ann. Mus. Gen. XVI, 404, ♂ (1880).
de Meij., Tijd. v. Ent. LVI, 348.
Sumatra; Sinabang, Simalur Is., off Sumatra, i, ii; Gunung Ungaren, Java, ix [*Jacobson*].
Type in Genoa Museum in poor condition.

fenestrata Ost. Sack., Berl. Ent. Zeits. XXXI, 188 ♂ ♀ (1887).
Brun., Rec. Ind. Mus. VI, 283; XV, 304: *id.*, Fauna Brit. Ind., 429, ♂ ♀.
Common and widely distributed in India, from April to October. Naini Tal, Darjiling, Kurseong, Lake Chilka, Madras, Peradeniya; Mazbat, Assam; Tura, Garo Hills.
Types in the Leyden Museum and Bigot collection.

determinata Ost. Sack., Berl. Ent. Zeits. XXXI, 188, ♂ (1887).
Brun., Rec. Ind. Mus. VI, 283.
Sula (Indo-Malay Archipelago).
Type, a unique ♂, in British Museum.

insignis, Brun., Fauna Brit. Ind., 430, ♂, pl. viii, 13, wing (1912).
Tenmalai, Travancore, 22-xi-08 [*Annandale*].
Type, a unique ♂, in Indian Museum.

bi-annulata, *id.*, *loc. cit.*, 430, ♂ (1912).
Kurseong, 26-vi-10. [*Annandale*]; Rotung, 27-xii-11 and Damda, 3000 ft., both N.-E. Ind. Frontier [*Kemp*].
Type in Indian Museum.

plecioides de Meij., Tijd. v. Ent. LVI, 348, ♀ (1913).
Nongkodjadjar, Java, i; Sinabang, Simalur Is. off Sumatra, ii, vii [*Jacobson*]. *Type* in Amsterdam Museum.

glabripes, *id.*, *loc. cit.*, 349, ♂ (1913).
Nongkodjadjar, Java, i [*Jacobson*].
Type, a unique ♂, in Amsterdam Museum.

femorata, *id.*, *loc. cit.*, LVIII, 67, ♂ (1916).
Fort de Kock, Simalur Island, Sumatra, x.
The unique *type* in Amsterdam Museum.

nigerrima Edw., Ann. Mag. Nat. Hist. (8) XVIII, 248 (1916).
Horisha, Formosa, 10-v-13 [*Maki*]; Taihoku, Formosa [*Shiraki*]. *Type* in British Museum.

angusticapitis Brun., Rec. Ind. Mus. XV, 305, ♂, pl. viii, 11, head and thorax, 12, head in profile, 13, tip of proboscis (1918).
Above Tura, Garo Hills, 3500—3900 ft., viii-17 [*Kemp*]. Unique *type* in Indian Museum.

ornata, *id.*, *loc. cit.*, 305, ♂ (1918).
Peradeniya, 11-viii-10. Unique *type* in Indian Museum.
var. **assamensis**, *id.*, *loc. cit.*, 306, ♂ (1918).
Shillong, 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*].

nocticolor Edw., Jour. Fed. Malay Sts. Mus., viii, 18, ♂ ♀, pl. iii, fig. 6*a*, *b*, genitalia; pl. iv, 13, wing (1919).
Siolak Daras, Sumatra, 3000 ft.

Gymnastes, Brun.[1]

Rec. Ind. Mus. VI, 281 (1911).
Id., *id.*, Fauna Brit. Ind., 432: Rec. Ind. Mus. XV, 307: Edw., Ann. Mag. Nat. Hist. (8) XVII, 359.
Genotype, *Teucholabis cyanea* Edw., as *G. violaceus*, sp. nov.

cyanea Edw., Ann. Mag. Nat. Hist. (8) VIII, 61, ♂ ♀ (*Teucholabis*) (1911).
Gymnastes violaceus, Brun., Rec. Ind. Mus. VI, 282 (1911).
id., Fauna Brit. Ind., 433, ♂, fig. 42 full ins. (1912).
Madulsima, Ceylon, 19-v-08, *type* ♂ [*Fletcher*]; Bentota, Ceylon, 13-vi-90, *type* ♀ [*Yerbury*]; Kandy, 22-v-10 (type of *violaceus*); Peradeniya, 15-vii-10 [*Gravely*]; Cherambadi, Wynaad, S. India, x-13 [*Fletcher*]. *Type* ♂ ♀ *cyanea* in British Museum, of *violaceus* in Indian Museum.

ornatipennis de Meij., Tijd. v. Ent. LIV, 47, pl. iii, 34, wing (*Gnophomyia*) (1911).
Gymnastes, *id.*, Edw., Ann. Mag. Nat. Hist. (8) XVIII, 249.
Paratropesa, *id.*, Alex., Proc. U.S. Nat. Mus. XLIX, 167, pl. xliii, 14, wing.
Wonosobo, Java, iv; Telaga Mendjer, Java, v [both *Jacobson*]; Tjibodas, Mt. Gedé, Java, 4500 ft. [*Bryant and Palmer*]; Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]; Reidel also records it from Formosa.
Type in Amsterdam Museum, no sex stated.
Alexander refers this species to *Paratropesa*, Sch., I think wrongly.

pictipennis Edw., Ann. Mag. Nat. Hist. (8) xvii, 358, ♂, fig. 4, p. 356, genitalia (1916).
Bukit Besar, Malay Penin. [*Robinson and Annandale*]
Type in British Museum.

bistriatipennis Brun., Rec. Ind. Mus. XV, 307, ♂ (1918).
Talewadi, N. Kanara Dist., 3 - 10-x-16 [*Kemp*].
Type in Indian Museum; *cotypes* in my collection.

pennipes, *id.*, *loc. cit.*, 308, pl. viii, 10, hind leg (1918).
Above Tura, Garo Hills, 3500—3900, vii-17 [*Kemp*].
Unique *type* in Indian Museum.

[1] Alexander regards this genus as synonymous with *Teucholabis*, but I still think it distinct (Rec. Ind. Mus. XV, 307) and Edwards supports its retention (Ann. Mag. Nat. Hist. (8) xvii, 358).

Atarba, Ost. Sack.

Monog. Dipt. N. Amer. IV, 127, pl i, 13, wing (1869).
Brun., Fauna Brit. Ind., 434.
GENOTYPE, *A. picticornis*, *id.*, sp. nov., *loc. cit.*
Leiponeura, Skuse, Proc. Linn. Soc. N. S Wales (2) IV, 795 (1890).
GENOTYPE, *L. gracilis*, sp. nov., *loc. cit.*, the 1st species by present designation.

nebulosa de Meij., Tijd. v. Ent. LIV, 42, ♂, pl. ii, 25, wing (1911).[1]
Batavia, viii [*Jacobson*]. *Type* in Amsterdam Museum.

pilifera, *id.*, *loc. cit.*. 43, ♂ ♀, pl. ii, 26, wing (1911).
Semarang, vi, vii [*Jacobson*]. *Types* in Amsterdam Museum.

diffusa, *id.*, *loc. cit.*, 43, ♀ (1911).
Semarang, i, xi [*Jacobson*]. *Type* in Amsterdam Museum.

flava Brun., Fauna Brit. Ind., 435, ♂ ♀, pl. viii, 15, wing (1912).
Darjiling, apparently common in autumn, 28-v-10, type ♂; 26-v-20, type ♀; 22-ix-08, 1-x-08 [all *Brunetti*]; 9-viii-09 [*Paiva*]. *Types* in Indian Museum.

pallidicornis Edw., Ann. Mag. Nat. Hist. (8) XVIII, 249, ♀ (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Unique *type* in British Museum.

fuscicornis Edw., *loc. cit.*, 250, ♀ (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Unique *type* in British Museum.

javanica Alex., Proc. U.S. Nat. Mus. XLIX, 171, ♀, pl. xliii, 19, wing (1916).
Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*]. *Type*, Cat. No. 19,020, U.S. Nat. Mus.

Section ERIOPTERINI.[2]

Eriopterina, Ost. Sack., Eriopterinae, Kert.

Rhypholophus, Kol.

Wien. Ent. Monats. IV, 393 (1860).
Ost. Sack., Monog Dipt. N. Amer. IV. 139, pl. i, 14, 15, wings : *id.*, Berl. Ent Zeits. XXXI, 192 : Sch., F. Austr. II, 536 : Brun., Fauna Brit. Ind., 440, pl. xi, 20, antenna.

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[1] Alexander regards *Leiponeura* as valid and places therein *nebulosa*, *pilifera* and *diffusa*. He thinks my *flava* the only oriental species of the genus *Atarba* except his own *javanica*.

[2] For characters and table of genera *v.* Brun., Fauna Brit. Ind. 436 *et seq.*, and Ost. Sack., Monog. Dipt. N. Amer. IV, 135.

GENOTYPE, *Rhypholophus phryganopterus* Kol., the original species.

Ilisomyia, Rond., Dipt. Ital. Prod. I, 180 (*Iliso-mya*) (1896).

GENOTYPE, *I. nubipennis*, sp. nov., *loc. cit.*

Ormosia, *id.*, *loc cit.*, 180 (1856).

GENOTYPE, *Erioptera nodulosa* Macq., by original designation.

Dasyptera, Sch., Wien. Ent. Monats. VII, 221 (1863).

GENOTYPE, *Erioptera varia* Mg., by original designation.

Erioptera, Sch., *nec* Mg.

geniculatus Brun., Fauna Brit. Ind., 441, ♂ (1912).
Kurseong, 16-iv-11 [*Annandale*].
Type in Indian Museum.

pulcher, *id.*, *loc. cit.*, 442, ♀, pl. viii, 16, wing (1912).
Phagu, Simla Distr., 9000 ft., 11-v-09 [*Annandale*]; Naini Tal, 6400 ft., Kumaon Distr., x-1906 [*Annandale*].
Type in Indian Museum.

Molophilus, Curt.

Brit. Entom. 444 (1833).

Ost. Sack., Monog. Dipt. N. Amer. IV, 243, pl. i, 16—19, wings, pl. iv, 14—16, forceps: *id.*, Berl. Ent. Zeits. XXXI, 192: Brun., Fauna Brit. Ind., 443

Erioptera Sch. (*nec* Meig.), Wien. Ent. Monats. VII, 221 (1863): *id.*, *id.*, F. Austr. II, 541.
GENOTYPE, *Erioptera atra* Mg., as *brevipennis* Curt., sp. nov.

bicolor de Meij., Tijd. v. Ent. LIV, 45, pl. iii, 27, wing (1911).
Wonosobo, Java, v [*Jacobson*].
Unique *type* in Amsterdam Museum.

inconspicuus Brun., Fauna Brit. Ind., 444, ♂ ♀ (1912).
Simla, 12-v-08; Ghumti, 4000 ft. [*Gravely*]; Kurseong, 4—6-vii-08; 18—20-vi-10, *type* ♂ [all *Annandale*]; Maddathorai, 16-xi-08, type ♀; Tenmalai, 22-xi-08 [both Travancore and *Annandale*]. *Types* in Indian Museum.

assamensis, *id.*, *loc. cit.*, 445, ♂ (1912).
Sylhet, 8-i-06 [*Hall*]. Unique *type* in Indian Museum.

costalis Edw., Ann. Mag. Nat. Hist. (8) XVIII, 251 (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Type in British Museum.

sirius Alex., Can. Ent. XLVII, 82, ♂ ♀, fig. 1, wing (1915).
Philippine Islands, July.

Erioptera, Mg.

Illig. Mag. II, 262 (1803).

Sch., F. Austr. II, 541: Ost. Sack., Monog. Dipt. N. Amer. IV, 146, pl. i, 16—19, wings; iv, 14—16, forceps: *id.*, Berl. Ent. Zeits. XXXI, 193. *Auctt. var.*

Brun., Fauna Brit. Ind., 445: *id.*, Rec. Ind. Mus. XV, 309, notes and synonyms.

GENOTYPE, *Erioptera lutea* Mg., by Coquillett's designation (1910).

Chemalida Rond., Dipt. Ital. Prod. I, 180 (1856).

GENOTYPE, *Erioptera taenionota* Mg., by original designation.

Limnaca, id., loc., cit., 181.

GENOTYPE, *Tipula flavescens* L., by original designation.

Limnoica, id., loc. cit. IV, p. 11, Corrigenda (1861), nom. nov. for *Limnaca*, preocc. Poli, 1791.

? *Octavia* Big., Ann. Soc. Ent. Fran. (3) II, 475 (1854).

javanensis de Meij., Tijd. v. Ent. LIV, 45, ♂; pl. iii, 28, wing (1911).

Wonosobo, Java, iv [*Jacobson*]; Pelaboean Ratoe, Java, 16-x-09; Buitenzorg, iii, 09 [*Bryant* and *Palmer*].

Type in Amsterdam Museum.

notata, *id., loc. cit.*, 46, ♂ ♀, pl. iii, 29, wing, 30, ♀ genitalia, 31, ♂ genitalia (1911).

Semarang ii [*Jacobson*]; Sinabang, Simalur Is., off W. Coast Sumatra, v, vi. *Types* in Amsterdam Museum in alcohol.

punctipennis Brun., Fauna Brit. Ind., 449, ♀, pl. viii, 17, wing (1912).

Kurseong, 26—27-vi-10 [*Annandale*]; Tura, Garo Hills, vii, viii, 17 [*Kemp*]. *Type* in Indian Museum.

ferruginea, *id., loc. cit.*, 450, ♂ (1912).

Pallode, Travancore, 15-xi-08 [*Annandale*].

Type in Indian Museum.

distans, *id., loc. cit.*, 451, ♂ (1912).

Kurseong, 26-vi-10 [*Annandale*].

Type in Indian Museum.

incerta, *id., loc. cit.*, 452, ♂ (1912).

Darjiling, 5-viii-09 [*Paiva*].

Type, a unique ♂, in Indian Museum.

parallela, *id., loc. cit.*, 453, ♀ (1912).

Kurseong, vi-1910. *Type* in Indian Museum, a unique ♀, the abdomen now missing.

orientalis, *id., loc. cit.*, 453, ♂ ♀ (1912).

Darjiling, 5-viii-09, *type* ♂ [*Paiva*]; type ♀ [*Annandale*];

Kurseong, 4—9-ix-09: [*Annandale*]; Calcutta [*Annandale*]; Shanghai, 8-v-06 [*Brunetti*]. *Types* in Indian Museum.

subtincta, *id.*, *loc. cit.*, 455, ♂ ♀ (1912).
Darjiling, 5-viii-09 [*Paiva*].
Types, a unique pair, in Indian Museum.

flava, *id.*, *loc. cit.*, 455, ♂ ♀ (1912).
halterata, *id.*, *loc. cit.*, 457 ♂ ♀ (1912).
Darjiling [*Brunetti* and *Paiva*]; 6000—7000 ft., 11 and 13-vi-14 [*Gravely*]; 20-ix-08 at light, *type* ♂, *halterata* [*Brunetti*]; 6—11-viii-09, *type* ♀, *halterata* [*Paiva*]; Madhupur, Bengal, 17-x-09 at light, *type* ♂, *flava* [*Paiva*]; Calcutta, 12-ix-07, *type* ♀, *flava* [*Annandale*]; near Khulna, Ganges Delta, on board launch, at light, 28-viii-09 [*Jenkins*]; Medha, Yenna Valley, Satara Distr., 2200 ft., 17—23-iv-12 [*Gravely*]; Shillong, 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*].
Types of *flava* ♂ ♀ and *halterata* ♂ ♀ in Indian Museum.

grandior, *id.*, *loc. cit.*, 456, ♀, pl. viii, 18, wing (1912).
Simla, 10-v-09 [*Annandale*]. *Type* in Indian Museum, unique.

genitalis, *id.*, *loc. cit.*, 456, ♂ ♀ (1912),
Bhowali, Kumaon Div., 27-vi-10, type ♂, at light; 12-vi-10, type ♀. *Types* in Indian Museum.

fusca de Meij., Tijd. v. Ent. LVI, 351, pl. xvii, 17, wing (1913).
Nongkojadjar, Java [*Jacobson*]. *Type*, unique, in Amsterdam Museum.

nigripalpis, *id.*, *loc. cit.*, 351, ♂ (♀ lapsus), pl. xvii, 18, ♂ genitals (1913).
Nongkodjadjar, Java, i [*Jacobson*].
Type, unique, in Amsterdam Museum.

insignis Edw., Ann. Mag. Nat. Hist. (8) XVIII, 251, ♂ ♀, (*Erioptera*, sub-gen.) (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]; Tokyo.
Types in British Museum.

albogutatta Edw., *loc. cit.*, p. 252, ♂, pl. xii, 4, genitalia (*Erioptera*, sub-gen.) (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Unique *type* in British Museum.

subfusca Edw., Jour. Fed. Malay Sts. Mus., VIII, 19, ♂, pl. iii, 7, genitalia (1919).
Korinchi Peak, Sumatra. *Type* in British Museum.

Acyphona, Ost. Sack.

Monog. Dipt. N. Amer. IV, 151 (1869).
GENOTYPE, *Erioptera venusta*, Ost. Sack., by present designation, no species having apparently been nominated.

Trichosticha, Sch., Wein. Ent. Monats. VII, 221 (1863).[1]

Ilisia, Rond., Dipt. Ital. Prod. I, 182 (1856).[2]

fenestrata de Meij., Tijd. v. Ent. LVI, 352, ♀, pl. xvii, 19, wing (1913).

Nongkodjadjar, Java, i [*Jacobson*]; Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*].

Type in Amsterdam Museum.

Apparently no genotype of *Acyphona* has hitherto been selected.

Mesocyphona, Ost. Sack.

Monog. Dipt. N. Amer. IV, 152 (1869).
Ost. Sack., Berl. Ent. Zeits. XXXI, 194:
Brun., Fauna Brit. Ind., 458.
Genotype, *Erioptera caloptera* Say., by my own designation, Fauna, 458.

nigripes Brun., Fauna Brit. Ind., 458, ♂, pl. ix, 1, wing (1912).

Kurseong, 7—9-ix-09 [*Annandale*]; Ghoom, 7500 ft., 19-ix-08; Pashok, 2000 ft. [*Gravely*]; Kalimpong, 600—4500 ft., 24-iv—10-v-15 [*Gravely*]. *Type* in Indian Museum.

gracilis Brun., Rec. Ind. Mus. XV, 310, ♀ (1918).

Bhoirakund, Assam-Bhutan Frontier, Darrang Distr., 18—22-x-12 [*Kemp*]. Unique *type* in Indian Museum.

Empeda, Ost. Sack.

Monog. Dipt. N. Amer. IV, 183 (1869).
Ost. Sack., Berl. Ent. Zeits. XXXI, 203:
Brun., Fauna Brit. Ind., 475.
Genotype, *E. stigmatica* Ost. Sack., by original designation.

Ilisophila, Rond., Dipt. Ital. Prod. I, 180 (1856).
Genotype, *Erioptera lutea* Mg., by original designation.

gracilis de Meij., Tijd. v. Ent. LIV, 49 ♀; pl. iv, 37, wing (1911).

Id., *loc. cit.*, LVI, 353, pl. xvii, 20, ♂ genitalia.

Tosari, Java [*Kobus*]; Nungkodjadjar, Java, i [*Jacobson*]. *Type* in Amsterdam Museum.

brevior Brun., Fauna Brit. Ind., 452, ♂ ♀, pl. ix, 2, wing (*Erioptera*) (1912).

Empeda inconspicua, *id.*, *loc. cit.*, 475, ♂ ♀; pl. ix, 10, wing.

[1, 2] No genotype appears to have been erected for *Trichosticha*, and of the three species placed in it by Schiner at its creation only one, *maculata* Mg., is now referred to it, and this one was selected by Rondani as type of *Ilisia*.

Darjiling, 5 and 11-viii-09, *type* ♂ and ♀ [*Paiva*]; 25—29-v-10 [*Brunetti*]; 3—9-vi-09 [*Howlett*]; Kurseong, 22—26-vi-10; 7-ix-09 [*Annandale*]. *Types* of both sexes of *brevior* and *inconspicua* in Indian Museum.

antica Brun., Fauna Brit. Ind., 568, ♂ (*Gonomyia*) (1912).
Ghumti, 4000 ft. *Type* in Indian Museum.

femoralis Edw., Jour. Fed. Malay Sts. Mus., viii, 20, ♀ (1919).
Korinchi Peak, Sumatra. *Type* in British Museum.

Gonomyia, Mg.

Syst. Besch I, 146 (1818).

Sch., F. Austr. II, 542: Ost. Sack., Mong. Dipt. N. Amer IV, 177—179: *id.*, Berl. Ent. Zeits. XXXI, 200 (incl. correction of Monog. ref.): Brun., Fauna Brit. Ind., 468: *id.*, Rec. Ind. Mus. XV, 311, notes.

GENOTYPE, *Limnobia tenella* Mg. (t. Coquillett, 1910).

Taphrosia, Rond., Dipt. Ital. Prod. I, 182 (1856).
GENOTYPE, *Limnobia tenella* Mg., by original designation.

Goniomyia, Ost. Sack., Monog. Dipt. N. Amer. IV, 177 (1869).[1]

metatarsata de Meij., Tijd. v. Ent. LIV, 48, ♀, pl. iii, 35, wing (1911).
Semarang, i, vii [*Jacobson*]; Pasaruan, Java [*Kobus*].
Type in Amsterdam Museum.

nubeculosa, *id.*, *loc. cit.*, 48, ♂, pl. iii, 36, wing (1911).
Wonosobo, Java, iv [*Jacobson*].
Type, a unique ♂, in Amsterdam Museum.

incompleta Brun., Fauna Brit. Ind., 471, ♂ ♀, pl. ix-5, wing; pl. xi-19, ♂ genitalia (1912).
Kurseong, 3-vii-08 [*Annandale*]; Sukna, 1-vii-08 [*Annandale*]; Ghumti, Darjiling, 4000 ft., vii-11 [*Gravely*]; Calcutta, 26-vii-08, *type* ♂, 21-viii-09 *type* ♀ [both *Annandale*]; 16-viii-12 in house [*Gravely*]; Katihar, viii-ix-10 [*Paiva*]; Bhogaon, 9-x-08 [*Paiva*], Kushtea, Bengal, 7—8-x-09 [*Jenkins*]; Talewadi, N. Kanara Dist. [*Kemp*]. *Types* in Indian Museum, *cotypes* in my collection.

flavomarginata, *id.*, *loc. cit.*, 472, ♂ ♀, pl. ix, 6 (1912).
Simla, 7000 ft. [*Annandale*]; Kurseong, 20-vi-10, *type* ♂; 18 and 22-vi-10; 6-ix-09, *type* ♀; 20-vi-10 [all *Annandale*]; Darjiling, 7-viii-09 [*Jenkins*]; 7000 ft. [*Paiva*]; Almora, Kumaon Div., 5500 ft., 13—16-ix-11 [*Paiva*].
Types in Indian Museum.

[1] *Goniomyia* is merely a different spelling of the name *Gonomyia*.

affinis, *id.*, *loc. cit.*, 472, ♂ ♀, pl. ix, 7, wing (1912).
Kumaon, 4700 ft. and 5000 ft. [*Annandale*]; Kurseong, 13—16-vii-07, *type* ♂; 25—28-iii-10; 5—7-vii-08; 22-vi-10 [all *Annandale*]; Darjiling, 5-viii-09 *type* ♀; 9-viii-09 [*Jenkins*]; Castle Rock and Talewadi, N. Kanara Dist. [*Kemp*].
Types in Indian Museum.

aperta, *id.*, *loc. cit.*, 473, ♂, pl. ix, 8, wing (1912).
Katihar, Bengal, 29—31-xii-09 [*Paiva*].
Type in Indian Museum, a unique specimen.

proxima, *id.*, *loc. cit.*, 474, ♂ ♀, pl. ix, 9, wing (1912).
Tirvani, 27-xii-09; Noalpur, 15-ii-08 (both base of Nepalese Himalayas); Rajmahal, Bengal, 14-ii-10, *type* ♂ ♀ *in cop.* [*Chaudhuri*]; Rajshahi, E. Bengal, 1—6-ii-07 [*Annandale*]; Pusa river bank, 6-i-11 [*Fletcher*]; 19-iv-09.
Types in Indian Museum, *cotype* ♀ in Pusa coll.

bryanti Alex., Proc. U.S. Nat. Mus. XLIX, 173, ♂, pl. xliv, 20, wing; pl. xlvii, 48, 49, genitalia (1916).
Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*].
Type, Cat. No. 19,021, U.S. Nat. Mus.

nebulosa Edw., Ann. Mag. Nat. Hist. (8) XVIII, 252 (*Lipophleps*) (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Type in British Museum.

Mongoma, Westw.

Trans. Ent. Soc. Lond. 364, pl. xvii, 1 (1881).
Ost. Sack., Berl. Ent. Zeits. XXVI, 90; XXXI, 203: Brun., Rec. Ind. Mus. VI, 290, 292 (*Mongoma* group): *id.*, Fauna Brit. Ind., 476: *id.*, Rec. Ind. Mus. XV, 311, notes, tab. allied gen. and Ind. spp.
GENOTYPE, *M. fragillima* Westw., by original designation.

tenera Ost. Sack., Berl Ent. Zeits. XXVI, 89, ♂ (1882).
Brun., Rec. Ind. Mus. VI, 295: *id.*, Fauna Brit. Ind., 480, ♂ ♀.
pallidiventris, Brun., Fauna Brit. Ind., 481, ♀ (1912).
Kurseong, 4700—5000 ft. [*Annandale*]; Ghumti, 4000 ft. [*Gravely*]; Sukna, 1-vii-08; 1-viii-08; Nedumangad, Travancore, 14-xi-09; Pallode, 15-xi-08, *type* of *pallidiventris* [both *Annandale*]; Tura, Garo Hills, vii, viii-17 [*Kemp*]; Ginting Bidai, Selangor-Pahang Frontier, Federated Malay States, 2000 ft., iv-17 [*Boden Kloss*]; Philippines.

pennipes Ost. Sack., Berl. Ent. Zeits. XXXI, 204, ♂ (1887).
de Meij., Tijd. v. Ent. LIV, 50, pl. iv, 38—41, var. chars.
Brun., Rec. Ind. Mus. VI, 295: *id.*, Fauna Brit. Ind., 479, ♂ ♀, pl. ix, 14, wing; pl. xi, 13, ♂ genitalia.

Sukna, N. Bengal, 1-vii-08; Calcutta, not uncommon, Feb. to Sept.; Pusa, at light, 6-vii-13 [*Howlett*]; in plantain bark, 27-xi-12; Kavalai, Cochin, 1300—3000 ft., 24—27-ix-14 [*Gravely*]; Peradeniya, 12—16-vii-10 [*Green*]; 16-ix-09 at light; Insein, Lower Burma, 31-vii—4-viii-14 [*Fletcher*]; Semarang, i, x [*Jacobson*]; Tumbong Hiong, Borneo.

cariniceps Ender., Zool. Jahr. XXXII, 60, ♂, fig. L[1], wing (1912).

Soekaranda, Sumatra, Mt. Salak, Java, 15-v-09, ♂ ♀ [*Bryant* and *Palmer*]; Siolak Daras, Korinchi Peak, Sumatra, 3000 ft., iii-14. *Type* in Stettin Zoological Museum.

obscura de Meij., Bijd. tot de Dierk. XIX, 48, ♂, pl. i, 5, wing (1913).

Waigou, 1-i-10. Unique *type* in Amsterdam Museum.

albipennis de Meij., Tijd. v. Ent. LVI, 353, ♀ (1913).

Nungkodjadjar, Java, i [*Jacobson*].

Unique *type* in Amsterdam Museum.

splendida Brun., Rec. Ind. Mus. XV, 313, ♂ ♀ (1918).

Above Tura, Garo Hills, 3500—3900 ft., vii, viii-17 [*Kemp*]. *Types* in Indian Museum.

kempi, *id.*, *loc. cit.*, 313, ♀ (1918).

Above Tura, Garo Hills, 3500—3900 ft., viii-17 [*Kemp*]. *Type* in Indian Museum.

flava, *id.*, *loc. cit.*, 314, ♀ (1918).

A unique ♀ taken in company with the above species. *Type* in Indian Museum.

Plesiomongoma, Brun.

Rec. Ind. Mus. XV, 314 (1918).

GENOTYPE, *P. venosa*, *id.*, sp. nov., *loc. cit.*

venosa Brun., *loc. cit.*, 314, ♀ (1918).

Shillong, 5500—6400 ft., 29-viii—5-ix-15 [*Kemp*]. Unique *type* in Indian Museum.

Trentepohlia, Big.

Ann. Soc. Ent. Fran. (3) II, 473 (1854).

Brun., Rec. Ind. Mus. XV, 315: Edw., Ann. Mag. Nat. Hist. (8) VIII, 63 (1911).

Mongomioides, Brun., Rec. Ind. Mus. VI, 296 (1911).

Id., Fauna Brit. Ind., 481.

GENOTYPE, *Limnobia trentepohlii* Wied., by original designation; the *type* species of *Mongomioides* is the same.[1]

[1] Though Bigot's description is quite valueless, Edwards recently noted (*vide ante*) one of the true generic characters (three posterior cells only), but I had overlooked his paper. Still, the nomination of a type species does not constitute the diagnosis of a genus.

trentepohlii Wied., Auss. Zweifl. I, 551, ♂, pl. vi, b, fig. 12 (*Limnobia*) (1828).

Macq., Hist. Nat. Dipt. I, 100 (*Limnophila*): Ost. Sack., Berl. Ent. Zeits. XXVI, 90: de Meij., Tijd. v. Ent. LIV, 51, notes, pl. iv, 42, wing; Brun., Rec. Ind. Mus. VI, 297: *id.*, Fauna Brit. Ind., 482, ♂ ♀, pl. ix, 13, wing.

Widely distributed throughout India, especially in the plains, Ceylon, Burma, Assam, Siam, Java and Sumatra. It extends northward at least to Sylhet [*Hall*]. The recorded months of appearance are February, and from August to November.

Type in Dr. Trentepohl's collection.

marmorata Brun., Fauna Brit. Ind. 483, ♀, pl. ix, 11, wing (*Mongomioides*) (1912).

Calcutta, 28-xi-07. Unique *type* in Indian Museum.

nigroapicalis, *id.*, *loc. cit.*, 483, ♂, pl. ix, 12, wing (*Mongomioides*) (1912).

Lucknow, 5-iii-11, *type*; Pusa, 20-iv-13, on pipal [*Howlett*]; 1-iv-16 [*Fletcher*]; Rajmahal, Bihar [*Chaudhuri*]; Sorabkalti, Ganges Delta [*Jenkins*]; Peradeniya, v-09; Tura, Garo Hills, Assam, vii-17 [*Kemp*]. *Type* in Indian Museum.

albogeniculata, *id.*, *loc. cit.*, App. 569, ♂ (*Mongomioides*) (1912).

Brun., Rec. Ind. Mus. VII, 448 (1912).[1]

Dawna Hills ("3rd Camp to Misty Hollow"), 400—2400 ft., 22—30-xi-11 [*Gravely*]. *Types* in Indian Museum.

speiseri Edw., Ann. Mag. Nat. Hist. (8) XII, 204, ♂ ♀, *nom. nov.*, fig. (1913).

Mongoma exornata Speiser (*nec* Bergr.), Berl. Ent. Zeits. LII, 135 (1907).

Peradeniya, II, 1912. Described from W. Coast of Africa.

Type in British Museum.

ornatipennis Brun., Rec. Ind. Mus. XV, 315, ♂, fig. 4, wing (*ornatepennis*, *lapsus*) (1918).

Castle Rock, N. Kanara Dist., 11—26-x-16 [*Kemp*].

Unique *type* in Indian Museum.

saucia Alex., Proc. U.S. Nat. Mus., XLIX, 174, ♀, pl. xliv, 21, wing (1916).

Tjibodas, Mt. Gedé, Java, 7800 ft. [*Bryant* and *Palmer*]. *Type*, Cat. No. 19,022, U.S. Nat. Museum.

pictipennis Bezzi, Phil. Jour. Sci XII, Sect. D. 115, ♂ (1917).

Luzon [*Baker*].

Paramongoma, Brun.

Rec. Ind. Mus. VI, 295 (1911).

Brun., Fauna Brit. Ind., 484: *id.*, Rec. Ind. Mus. XV, 314.

[1] The Fauna reference antedates the other by about a month.

GENOTYPE, *Cylindrotoma albitarsis* Dol., by original designation.

Mongomella, Ender., Zool. Jahr. XXXII, 61 (1912).

GENOTYPE, *Mongoma pallida* Will., by original designation.

albitarsis Dol., Nat. Tijd. Ned. Ind. XIV, 391, pl. iv, 1, full ins. (*Cylindrotoma*) (1857).

Ost. Sack., Berl. Ent. Zeits. XXVI, 90: Brun., Rec. Ind. Mus. VI, 295, notes: *id.*, Fauna Brit. Ind., 484.

Java, Amboina. Location of *type* unknown, probably lost.

Anchimongoma, Brun.

Rec. Ind. Mus. XV, 316 (1918).

GENOTYPE, *A. simplex*, sp. nov., *loc. cit.*

simplex Brun., *loc. cit.*, 316, ♂ ♀, fig. 5, wing (1918).

Castle Rock, N. Kanara Dist., 11—26-x-16 [*Kemp*].

The unique *types* in the Indian Museum.

Lechria, Skuse.

Proc. Linn. Soc. N.S. Wales (2) IV, 830 (1890).

Brun., Fauna Brit. Ind., 465.

GENOTYPE, *L. singularis* Skuse, by original designation.

lucida de Meij., Tijd. v. Ent. LIV, 53, ♀, pl. iv, 45, wing (1911).

Batavia, vi [*Jacobson*].

Type, unique, in Amsterdam Museum.

bengalensis Brun., Rec. Ind. Mus. VI, 301, ♂ ♀ (1911).

Id., Fauna Brit. Ind., 467, ♂ ♀, pl. ix, 4, wing: *id.*, Rec. Ind. Mus. XV, 317.

Pusa, 15-viii-08, *type* ♂; 16-vii-10; 24-viii-11 [*Howlett*]; Calcutta, 19-viii-07, *type* ♀; 18-vi-09; Bangalore, 12-x-10 [*Annandale*]; Talewadi, N. Kanara Dist. [*Kemp*]; 30-v-12 [*Gravely*]. *Type* ♂ in Pusa collection, *type* ♀ in Indian Museum.

nepalensis Brun., Rec. Ind. Mus. XV, 317, ♀ (1918).

Katmandu, Nepal. The unique *type* in the Indian Museum.

leucopeza de Meij., Tijd. v. Ent. LVI, Supp., p. 3, ♀ (1914).

Semarang, viii [*Jacobson*].

Unique *type* in Amsterdam Museum.

Styringomyia, Lw.[1]

Dipt. Beitr., I in "Zu der offentlichen Prufung der Schuler d. Konigl. Fried. Wilh. Gymn. zu Posen," p. 6 (1845).

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[1] Placed in error in Rhaphidini in my second paper on Tipulidae. It belongs near *Lechria*.

Edw., Trans. Ent. Soc. Lond., 208 (1914)[1]: Brun., Rec. Ind. Mus. VI, 297; XV, 304: Fauna Brit. Ind., 459.

GENOTYPE, *S. venusta* Lw., a fossil species, by original designation.

Pycnocrepis, Ender., Zool. Jahr. XXXII, 65 (1912).

GENOTYPE, *Styringomyia crassicosta* Speis., as *P. annulipes*, *id.*, sp. nov., *loc. cit.*

crassicosta Speis., Berl. Ent. Zeits. LII, 132 (*Idiophlocba*) (1907).

ceylonica Edwards, Ann. Mag. Nat. Hist. (8) VIII, 62, ♀ (July 1911): Brun., Rec. Ind. Mus. VI, 298, ♂ ♀ (erroneous redescription from series containing more than one species): Brun., Fauna Brit. Ind., 461 (same redescription copied).

didyma Grims., de Meij., Tijd. v. Ent. LIV, 40 (pt).

Pycnocrepis annulipes Ender.. Zool. Jahr. XXXII, 65, ♂, fig. O[1], wing (1912).

Tarnab, Peshawar Distr. [*Fletcher*]; Bhogaon, N. Bengal [*Paiva*]; Puri, Orissa, 10-xi-10 [*Annandale*]; Kankondigee, Sunderbunds, Ganges Delta, 14-xi-09, at light on board launch [*Jenkins*]; Calcutta; Weligama, Ceylon, 9-ii-08 [*Fletcher*]; Taiping [*Wray Junr.*]; Pasuran, Java [*Kobus*]; Tainan, Formosa [*Sauter*]; Formosa ♂ ♀ (t. Ender.); Singgora, Siam [*Annandale*]. *Type* in British Museum.

The above localities are mainly from Mr. Edwards' corrected list in the Trans. Ent. Soc.

obscura Brun., Rec. Ind. Mus. VI, 300 ♀ (erroneously given as ♂ (1911).

Id., Fauna Brit. Ind., 463, ♂ (as ♀).

Thaumaspur, Nepal, 18—20-ii-08.

Type in Indian Museum.

flava Brun., Rec. Ind. Mus. VI, 301, ♂ (1911).

Id., Fauna Brit. Ind., 464, ♂.

Tenmalai, Travancore, 22-xi-08, a unique ♂, "at light" [*Annandale*]. *Type* in Indian Museum.

nigrofemorata Edw., Trans. Ent. Soc., p. 215, ♀, pl. xxiii, 51 (1914).

Taiping, Malay States [*Wray Junr.*].

Unique *type* in British Museum.

formosana, *id.*, *loc. cit.*, 219, ♂ ♀, pl. xix, 9; xxi, 30, 31; xxv, 70, 71, 72 (1914).

Tainan, Formosa; Koshun, Formosa [*Sauter*].

Type in the Deuts. Ent. Museum, Berlin; *paratypes* in British Museum.

javana, *id.*, *loc. cit.*, 220, ♂, pl. xix, 8; xxii, 32, 33 (1914).

Nongkodjadjar, i, Java [*Jacobson*].

Type in Amsterdam Museum, a unique specimen.

[1] This paper by Edwards reviews all the known species, and includes a revised generic description and table. The figures, of which there are many, are mainly of genitalia. He corrects one or two errors of mine in the genus.

jacobsoni, *id.*, *loc. cit.*, 220, ♂ ♀; pl. xix, 6, thorax, 7; pl. xxii, 34, 35; xxv, 73 (1914).
didyma Grims., de Meij., Tijd. v. Ent. LIV, 40 (pt.).
Semarang, i; Batavia, ii [*Jacobson*]; Sukabumi (Parc), xii [*Dammermann*]. *Type* in Amsterdam Museum.

fryeri, *id.*, *loc. cit.*, 221, ♂ ♀, pl. xxii, 36, 37; xxv, 74, 75 (1914).
Peradeniya [*Fryer*]. *Type* in British Museum.

himalayana, *id.*, *loc. cit.*, 221, ♂ ♀, pl. xxii, 40; xxiii, 41; xxv, 77 (1914).
Sukna, ♂ ♀ *in cop.* [*Annandale*]. *Type* in Indian Museum.

nepalensis, *id.*, *loc. cit.*, 222, ♂ ♀, pl. xxiii, 42, 43; xxv, 78, 79 (1914).
Sukhwani, Nepal. *Type* in Indian Museum.

Gnophomyia, Ost. Sack

Proc. Acad. Nat. Sci. Philad. 223 (1859).
Ost. Sack., Monog. Dipt. N. Amer. IV, 172; pl. ii, 5, wing; iv, 19, 19a, genitals, ♂ ♀ : Sch., F. Austr. II, 535: Ost. Sack., Berl. Ent. Zeits. XXXI, 198: Brun., Fauna Brit. Ind., 487.
Id., Rec. Ind. Mus. XV, 318, notes on synonymy.
GENOTYPE, *G. tristissima* Ost. Sack., by Coquillett's designation.
Furina, Jaen., Abh. Senck. Ges. VI, 318 (1867).
GENOTYPE, *Limnobia rufithorax* W., by original designation.

orientalis de Meij., Tijd. v. Ent. LIV, 46, ♂ ♀; pl. iii, 32, wing, 33, ♂ genitalia (1911).
Batavia, vi; Bekasssi, Java, viii [*Jacobson*]; Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]. *Types* in Amsterdam Museum.

strenua Brun., Fauna Brit. Ind., 492, ♀, pl. ix, 19, wing (1912).
Kurseong, 5-ix-09 [*Annandale*].
Type in Indian Museum, a unique specimen.

nigra, *id.*, *loc. cit.*, 493, ♂, pl. x, 2, wing (1912).
Kumaon [Forest Zoology colln.]; Bhim Tal, 4500 ft. [*Annandale*]; Kurseong, 7-ix-09 [*Annandale*]; Nilgiri Hills, 3500 ft. [*Andrewes*]. *Type* in Indian Museum.

Dasymallomyia, Brun.[1]

Rec. Ind. Mus. VI, 304 (1911).
Brun., Rec. Ind. Mus. XV, 318.
GENOTYPE, *D. signata* Brun., sp. nov.

[1] The synonymy of *Dasymallomyia* with *Gnophomyia* was pointed out by Alexander. I did not know of the group of tropical American species with short hairy legs to which he refers. The genus *Gnophomyia* was imperfectly understood by me in the preparation of my work. However, Mr. Edwards is inclined to retain *Dasymallomyia* for one of the groups of species comprised in *Gnophomyia*, and it is here regarded provisionally as a valid genus.

signata Brun., *loc. cit.*, 304, ♀ (1911).
Id., Fauna Brit. Ind., 495, ♀, pl. x, 4.
Kurseong, 7-ix-09 [*Lynch*]; Horisha, Formosa, 10-v-13 [*Maki*]. *Type* in Indian Museum.

maculipleura Edw., Ann. Mag. Nat. Hist. (8) XVII, 360, ♂ ♀, fig. 5, p. 356, genitalia (1916).
Bukit Besar, Siam [*Robinson* and *Annandale*].

fraterna, *id.*, *loc. cit.*, 361, ♂, fig. 6, p. 356, genitalia (1916).
Selangor [*Butler*].

nigrescens, *id.*, *loc. cit.*, 361, ♀ (1916).
Talum, Perak, 3500 ft., 17-i-02 [*Robinson* and *Annandale*].
Types of last three species in British Museum.

similis Edw., Ann. Mag. Nat. Hist. (8) XVIII, 251, ♀, pl. xii, 3 genitalia (1916).
Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].
Type in British Museum.

Oxydiscus, de Meij.

Tijd. v. Ent. LVI, 350 (1913).
GENOTYPE, *O. nebulosus* de Meij., the original species.

nebulosus de Meij., *loc. cit.*, 351, ♀ (1913).
Tjinjiruan, West Java [*v.d. Weele*].
Unique *type* in Amsterdam Museum.

umbrosus Edw., Ann. Mag. Nat. Hist. (8) XVII, 361, ♀ (1919).
Kedah Peak, 3200 ft., Malay Peninsula [*Stanton*].
Unique *type* in British Museum.

Clydonodozos, Ender.[1]

Zool. Jahr. XXXII, 57 (1912).
Brun., Rec. Ind. Mus. XV, 318.
GENOTYPE, *C. multistriatus*, *id.*, sp. nov., *loc. cit.*

multistriatus Ender., *l. c.*, 57, ♂ ♀, fig. J^1, wing (1912)
Bekantiang, Sumatra
Types in Stettin Zoological Museum.

punctulatus, *id.*, *loc. cit.*, 59 (sex ?) fig. K^1, wing
Soekaranda, Sumatra.
The unique *type* in Stettin Zoological Museum.

griseiceps de Meij., Tijd. v. Ent. LVIII, Supp. 11, ♀ (1910).
Sinabang, Simalur Is. off W. coast Sumatra, ii.
Type in Amsterdam Museum, a unique ♀.

[1] In Mr. Edwards' opinion this genus is doubtfully distinct from *Conosia*.

Conosia, Wulp.

Tijd. v. Ent. XXIII. 159, pl. x, 5—7 (1880).
Ost. Sack., Berl. Ent. Zeits. XXXI, 206: Brun., Fauna Brit. Ind., 496.
GENOTYPE, *Limnobia irrorata* W., by original designation.

irrorata Wied., Auss. Zweifl. I, 574, ♀ (*Limnobia*) (1828).
Auctt. var.; Brun., Rec. Ind. Mus. VI, 283: Fauna Brit. Ind. 497, ♂ ♀, fig. 43, lateral view, pl. x, 5, wing.
Limnobia substituta Walk., List Dipt. Brit. Mus. I, 39 (1848).
Limnophila crux Dol., Nat. Tijd. Ned. Ind. XIV, 388, pl. iv, 3, full insect (1857).

Apparently distributed generally throughout the Orient, common in many places, and extending from Peshawar District [*Fletcher*] to Assam, Cochin, Java, Formosa, Sumatra, China, Japan and Australia. Dr. Annandale took it at Lake Tiberias in Palestine.

Type presumably in Westemanns' coll. at Vienna Museum.

Cladura, Ost. Sack.

Proc. Acad. Nat. Sci. Philad. p. 229 (1859).
Ost. Sack., Monog. Dipt. N. Amer. IV, 187: Berl. Ent. Zeits. XXXI, 205: Brun., Rec. Ind. Mus. VI, 283 (the *Cladura* group); XV, 319: Fauna Brit. Ind., 499.
GENOTYPE, *C. flavoferruginea* Ost. Sack., by original designation.

flavescens Brun., Rec. Ind. Mus. VI, 284, ♂ ♀ (1911).[1]
Id., Fauna Brit. Ind., 501, ♂ ♀, pl. x, 6, wing: Rec. Ind. Mus. XV, 319 (retention of species in *Cladura*).
Darjiling, 7-viii-09, *type* ♂; 6-viii-09, *type* ♀ [both *Paiva*].
Types, a unique pair, in Indian Museum.

interrupta Brun., Rec. Ind. Mus., XV, 319, ♀ (1918).
Pashok, Darjiling Distr., 3500 ft., 26-v—14-vi-16 [*Gravely*].
Type in Indian Museum.

Paracladura, Brun.[2]

Rec. Ind. Mus. VI, 286 (1911).
Id., Fauna Brit. Ind., 502: *id.*, Rec. Ind. Mus. XV, 320 (position criticised).
GENOTYPE, *P. gracilis* Brun., by original designation.

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[1] *C. flavescens* is almost certainly a *Cladura* in Osten Sacken's sense, agreeing with his description and with Needham's figure. I think Alexander is in error in claiming that my species is wrongly placed generically.

[2] For discussion on Alexander's objection to this genus, v. Brun., Rec. Ind. Mus. XV, 320.

gracilis Brun., Rec. Ind. Mus. VI, 287 ♂ ♀ (1911).
Id., Fauna Brit. Ind., 503, ♂ ♀, pl. x, 9, wing, 10 antenna.
Darjiling, 28—29-v-10 [*Brunetti*].
Types, a unique pair, in Indian Museum.

elegans Brun., Rec. Ind. Mus. VI, 288, ♀ (1911).
Id., Fauna Brit. Ind., 504, ♀.
Darjiling, 26—29-v-10 [*Brunetti*]. *Type* in Indian Museum.

Symplecta, Mg.

Syst. Besch. VI, 282 (1830).
Sch., F. Austr. II, 545: Ost. Sack., Monog. Dipt. N. Amer. IV, 170, pl. i, 20, wing; iv, 21, forceps: *id.*, Berl. Ent Zeits. XXXI, 197: Brun., Fauna Brit. Ind., 485.
GENOTYPE, *Limnobia punctipennis* Mg., as *hybrida*, by Westwood's designation.
Helobia St. Farg. et Serv., Encyc. Meth. Ins. X, 585 (1825).
GENOTYPE, *Limnobia hybrida* Mg. as *L. punctipennis* Mg., by original designation.
Idioneura Phil., Verh. zool. bot. Gesch. Wien. XV, 615, pl. xxiii, 4 (1865).
GENOTYPE, *I. macroptera*, *id.*, *loc. cit.*, sp. nov.
Symplectromorpha Mik., Wien. Ent. Zeits. V, 318 (1886).
GENOTYPE, *Limnobia stictica* Mg., by original designation.

punctipennis Mg., Syst. Besch. I, 147, pl. v, figs. 2, 3, 7 (*Limnobia*) (1818).
Auctt var.: Brun., Fauna Brit. Ind., 486, ♂ ♀, pl. ix, 15, wing.
Peshawar, 19-iii-13 [*Howlett*]; Darjiling, 22—30-ix-08 [*Brunetti*]; 5—6-viii-09 [*Paiva*]; Matiana, Simla Distr., 8000 ft., 28—30-iv-07 [*Annandale*]. Also Europe.
Type in the Meigen collection at Paris Museum, but practically nothing remains of it but the wings.

Section AMALOPINI.

Ost. Sack., Monog. Dipt. N. Amer. IV, 259: Brun., Rec. Ind. Mus. VI, 305: *id.*, Fauna Brit. Ind., 507.
Amalopina, Ost. Sack., Monog. Dipt. N. Amer. IV, 259.
Pediciinae, Kert., Kat. Dipt. II.

Trichocera, Mg.[1]

Illig. Mag. II, 262 (1803).
Sch., F. Austr. II, 546: Ost. Sack., Mong. Dipt. N. Amer. IV, 233, pl. ii, 13, wing: *id.*, Berl. Ent. Zeits. XXXI, 217: Brun., Rec. Ind. Mus. VI, 305 (genus removed to Section Amalopini: *id.*, Fauna Brit. Ind., 508.
GENOTYPE, *Tipula hiemalis* Degeer, by original designation.

ocellata Walk., Ins. Saund. Dipt., pt. v, 433, ♀ (1856).
Brun., Fauna Brit. Ind., 510, ♀.
East India; Theog, Simla Hills, 2-v-07 [*Annandale*]. *Type* in British Museum, in inferior condition. My redescription is from a single ♀ from Theog, on the assumption that the species is correctly identified.

punctipennis Brun., Fauna Brit. Ind., 511, ♂ ♀, pl. x, 13, wing (1912).
Simla, 23—25-iv-07 [*Annandale*].
Types in Indian Museum.

flava, *id.*, *loc. cit.*, 512, ♀ (1912).
Darjiling, 28-v-10 [*Brunetti*].
Type, a unique ♀, in Indian Museum.

montana, *id.*, *loc. cit.*, 513, ♂ (1912).
Badrinath, Garhwal Distr., 10,200 ft., W. Himalayas, 27-v-10, ♂ [*Imms*]. *Type*, a unique ♂, in Indian Museum

Amalopis, Hal. in Walk.

Ins. Brit. Dipt. III, p. xv (1856).
Sch., F. Austr., II, 527: Ost. Sack, Monog. Dipt. N. Amer. IV, 260, pl. ii, 15, wing; iv, 30 genitals: *id.*, Berl. Ent. Zeits. XXXI, 224: Brun., Fauna Brit. Ind. 513: *id.*, Rec. Ind. Mus. XV, 321; Bergr., Ann. Mag. Nat. Hist. (8) XI, 583 (*Amalopis* v. *Tricyphona*).
GENOTYPE, *Limnobia occulta* Mg. (*t.* Coquillett, 1910).

Tricyphona, Zett., Ins. Lapp. Dipt., 851 (1838).
GENOTYPE, *Limnobia immaculata* Mg., by original designation.

Bophrosia, Rond., Dipt. Ital. Prod. I, 183 and Errata (1856).
GENOTYPE, the same species as of *Tricyphona* by original designation.

[1] For reasons for removing the genus here, v. Brun., Rec. Ind. Mus. VI, 305.

Crunobia, Kol., Wien. Ent. Monats. IV, 391 (1860).
GENOTYPE, *C. schineri*, sp. nov., *loc. cit.*
? *Nasiterna*, Walleng., Entom. Tidskr. II, 179 (1881).

glabripennis Brun., Fauna Brit. Ind., 515, ♂, pl. x, 12, wing (1912).
Darjiling, 1-x-08, 2 and 10-vi-17 [*Brunetti*]; Yembung, N.E. Ind. Frontier, 1100 ft., 15-i-12 [*Kemp*].
Type in Indian Museum.

elegans Brun., *loc. cit.*, 516, ♂ ♀, pl. x, 11, wing (1912).
Kurseong, 28-vi-10, *type* ♂; 20-vi-10, *type* ♀; 18-vi-10.
Types in Indian Museum.

spectralis Brun., Rec. Ind. Mus. XV, 321, ♂, pl. vii, 4, wing (1918).
Pashok, Darjiling District, 3000 ft., 26-v—14-vi-16 [*Gravely*].
Type in Indian Museum.

Amalopina, Brun.

Fauna Brit. Ind. 517 (1912).
GENOTYPE, *A. elegantula*, *id.*, sp. nov., *loc. cit.*

elegantula Brun., *loc. cit.*, 517, ♂ (1912).
Darjiling, 26-v-10 [*Brunetti*].
Type, a unique ♂ in indifferent condition, in Indian Museum.

Section LIMNOPHILINI.[1]

Trichocerinae, Kert., Kat. Dipt. II, 218 (1902).

Rhaphidolabis, Ost. Sack.

Proc. Ent. Soc. Philad. p. 225 (1865).
Ost. Sack., Monog. Dipt. N. Amer. IV. 284, pl. ii, 17, wing: Brun., Fauna Brit. Ind., 517: *id.*, Rec. Ind. Mus. XV, 322, placed unintentionally in Eriopterini; notes *re* antennae.
GENOTOYPE, *R. tenuipes* Ost. Sack., by original designation.
Plectromyia, Ost. Sack., Monog. Dipt. N. Amer. IV, 282 (1869).
GENOTYPE, *P. modesta*, *id.*, sp. nov., *loc. cit.*
? *Claduroides*, Brun., Rec. Ind. Mus. VI, 288 (1911) Fauna Brit. Ind., 505.[2]
GENOTYPE, *C. fascipennis*, *id.*, sp. nov., *loc. cit.*

sordida Brun., Rec. Ind. Mus. VI, 290, ♂ ♀ (*Claduroides*) (1911).
Id., Fauna Brit. Ind., 506, ♂ ♀ (*Claduroides*).

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[1] For characters, etc. v. Ost. Sack., Monog. Dipt. N. Amer. IV, 190 and Brun., Fauna Brit. Ind., 521.

[2] See Brunetti, Rec. Ind. Mus. XV, 320, 322 for validity of *Claduroides*.

Simla, 10-v-09, *type* ♂, 12-v-09; Kurseong, 4-ix-09, *type* ♀; Phagu [all *Annandale*]. *Types* in Indian Museum.

fascipennis Brun., Rec. Ind. Mus. VI, 289, ♂ ♀ (*Cladurοides*) (1911).

Id., Fauna Brit. Ind., 505, pl. x, 7, wing, 8, antenna (*Claduroides*) (1912).

Gnophomyia longipennis, Brun., Fauna Brit. Ind., 489, ♀, pl. ix, 17, wing (1912).

Rhaphidolabis fascipennis, *id.*, *loc. cit.*, 519, ♀, pl. x, 14, wing (1912).

Darjiling, 20-ix-08, *type* [*Brunetti*]; 9-viii-09 [*Paiva*]; Kurseong, 7-ix-09; Phagu, 12-v-09 [both *Annandale*]; Dhakuri, Kumaon Div., 8900 ft. [*Imms*]. *Types* of *R. fascipennis*, *G. longipennis* and *C. fascipennis* all in Indian Museum.

incompleta Brun., Fauna Brit. Ind., 493, ♂, pl. x, 2, wing (*Gnophomyia*) (1912).

Kurseong, 7-ix-09 [*Annandale*].

Unique *type* in Indian Museum.

Alexander has noted that this species would fall in *Plectromyia*, Ost. Sack., but this is now generally sunk in *Rhaphidolabis*.

indica Brun., Fauna Brit. Ind., 519, ♂ ♀, pl. x, 15, wing (1912).

Theog, 27-iv-07, *type* ♂; Matiana, 28—30-iv-07, *type* ♀; Phagu [all *Annandale*]. *Types* in Indian Museum.

brunettii Edw., Ann. Mag. Nat. Hist. (8) XVIII, 254, *nom. nov.* for *aperta* Brun., preocc. Coq. (1916).

aperta Brun., Fauna Brit. Ind., 492, ♂, pl. x, 1, wing (*Gnophomyia*) (1912).

Darjiling, 8-viii-09 [*Paiva*]; Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]. *Type* in Indian Museum.

Limnophila, Macq.

Hist. Nat. Dipt. I, 95 (1834).

Sch., F. Aust. II, 554: Ost. Sack., Monog. Dipt. N. Amer. IV, 196—202, pl. ii, 6, 7, 9, 10, wings; iv, 23—27, ♂ genitalia: Brun., Fauna Brit. Ind., 521: Rec. Ind. Mus. VI, 306, notes; XV, 323, tab. orient spp.

GENOTYPE, *Limnobia ferruginea* Mg., according to Coquillett (1910), who replaces the generic name by *Phylidorea*, Big.

Limnomya, Rond., Dipt. Hal. Prod. IV, Corrigenda, 11 (1861): *nom. nov.* for *Limnophila*.

Pilaria, Sintensis, Sitzs. Naturf. Ges. Dorpat VIII, 398 (1888).

GENOTYPE, *Limnobia pilicornis* Zett., by Coquillett's designation.

terminalis Walk., Proc. Linn. Soc. Lond. V, 230, ♀ (*Limnobia*) (1861).

de Meij., Nova Guin. Res. IX, 309, pl. x, 4, wing: Brun., Rec. Ind. Mus. VI, 306.

Dorey, Papua; Bivak Is., Papua, xii; Regen Is, Papua ix, x [*Lorentz*]. *Type* in British Museum, useless for comparison.

selectissima Walk., Proc. Linn. Soc. Lond. VII, 202, ♂ (*Limnobia*) 1864).

Mysol. *Type* in British Museum.

contingens, *id.*, *loc. cit.*, VIII, 104, ♂ (*Limnobia*) (1865).

Papua. *Type* in British Museum, abdomen and legs missing.

trisignata, *id.*, *loc. cit.*, VIII, 105, ♀ (*Limnobia*) (1865).

Brun., Rec. Ind. Mus. VI, 306.

Papua. *Type* in British Museum in fair condition.

opaca de Meij., Tijd. v. Ent. LIV, 52, ♀, pl. iv, 44, wing (1911).

Wonosobo, Java, v [*Jacobson*].

Type, a unique ♀, in Amsterdam Museum.

genitalis Brun., Fauna Brit. Ind., 490, ♂ ♀, pl. ix, 16, wing (*Gnophomyia*) (1912).

Bhowali, Kumaon Div., 27-vi-10 [*Imms*].

Types in Indian Museum, unique.

furcata, *id.*, *loc. cit.*, 491, ♂ ♀, pl. ix, 18, wing (*Gnophomyia*) (1912).

Darjiling, 5—10-viii-09 [*Paiva*].

Types in Indian Museum.

pallidicoxa Brun., *loc. cit.*, 523, ♀ (1912).

Kurseong, 4-vii-08 [*Annandale*]; 26-iii-10 [*Gravely*]; Bhogaon, [*Paiva*]; Bhowali, Kumaon, 14-vi-10, at light [*Imms*]. Cherrapunji, Assam, 4400 ft., 2—8-x-14 [*Kemp*].

Type in Indian Museum.

simplex, *id.*, *loc. cit.*, 523, ♀ (1912).

Pattipola (hills), Ceylon [*Annandale*]; Bhowali, 29-vi-10 [*Imms*]. *Type* in Indian Museum.

multipunctata, *id.*, *loc. cit.*, App. 569 (1912).

Nilgiri Hills. The unique *type* in the Indian Museum.

honesta, *id.*, *loc. cit.*, App., 570, ♀ (1912).

Kumaon Division. The unique *type* in the Indian Museum.

claripennis, *id.*, Rec. Ind. Mus. VIII, 153, ♀ (1913).

Yembung, N.E. Indian Frontier, 1100 ft., 13-i-12 [*Kemp*]. *Types* in Indian Museum.

quartarius, *id.*, *loc. cit.*, 154, ♂ ♀ (1913).

Rotung, N. E. Indian Frontier, 1400 ft., 26—27-xii-11 [*Kemp*]. *Types* in Indian Museum, the ♀ in bad condition.

apicalis de Meij., Nova Guin. Res. IX, 309, ♀, pl. x, 3, wing (1913).
Alkmaar, S.W. Papua [*Lorentz*].
Type in Amsterdam Museum, unique.

javana de Meij., Tijd. v. Ent. LIX, 198, ♂ ♀, pl. vii, 11, wing (1916).
Gedeh, Java, 1500—2000 metres, June [*Konigsberger*].
Unique ♂ in Amsterdam Museum.

amica Alex., Proc. U.S. Nat. Mus. XLIX, 175, ♂, pl. xliv, 22, wing (1916).
Java, Tjibodas, Mt. Gedé, Java, 4500 [*Bryant* and *Palmer*]. *Type*, Cat. No. 19023, U.S. Nat. Mus.

palmeri, *id.*, *loc. cit.*, 175, ♂ (1916).
Java, taken in company with above species.
Type, Cat. No. 19024, U.S. Nat. Mus.

demeijeri Edw., Tr. Zool. Soc. XX, 393, ♀, pl. xxxviii, full ins. col. (1915).
Upper Utakwa Valley, Papua, 5000—10,000 ft., ii—iii-13. The unique *type* (presumably) in British Museum.

annulipes Brun., Rec. Ind. Mus. XV, 324, ♂ (1918).
Talewadi, N. Kanara Distr., 3—10-x-16 [*Kemp*].
Unique *type* in Indian Museum.

parvicellula, *id.*, *loc. cit.*, 325, ♂ (1918).
Taken in company with *annulipes* [*Kemp*].
Unique *type* in Indian Museum.

glabra, *id.*, *loc. cit.*, 325, ♂ (1918).
Taken in company with *annulipes* (11—26-x-16) [*Kemp*]. Unique *type* in Indian Museum.

fusca, *id.*, *loc. cit.*, 326, ♂ ♀ (1918).
Sureil, Darjiling District, 5000 ft., iv—v-17 [*Kemp*].
Types in Indian Museum.

incompleta, *id.*, *loc. cit.*, 326, ♂ (1918).
Taken in company with *fusca*. *Type* in Indian Museum.

inconsequens, *id.*, *loc. cit.*, 326, ♂ (1918).
Castle Rock, N. Kanara Distr., 11—26-x-16 [*Kemp*]; Coonoor, 3-ix-11, banks of a rivulet [*Howlett*] *Type* in Indian Museum.

flavipennis, *id.*, *loc. cit.*, 327, ♀, pl. viii, 14, wing (1918).
Darjiling, 6900 ft. 17-v-17 [*Brunetti*].
Unique *type* in my collection.

ornatipennis, *id.*, *loc. cit.*, 328, ♂ ♀, pl. vii, 5, wing (1918).
Soom, Darjiling District, 4000—5000 ft., 14-vi-14, *type* ♂; Darjiling, 7000 ft., 12-vi-14, *type* ♀ [both *Gravely*].
Types in Indian Museum.

sp. incert., enchroma Walk., Proc. Linn. Soc. Lond. VI, 4 (*Limnobia*) (1862).

Brun., Rec. Ind. Mus. VI, 306.

This species is doubtful, described originally from Gilolo, and apparently not seen since. Osten Sacken refrained from confirming the single specimen as a *Limnophila*, as the antennae were missing. The *type* is now legless also but the conspicuously marked wings would render identification of the species possible.

Dicranophragma, Ost. Sack.

Proc. Acad. Nat. Sci. Philad. 240 (1859).
Brun., Fauna Brit. Ind., 524.
Genotype, *D. fuscovaria* Ost. Sack., by original designation.

pulchripennis Brun., Fauna Brit. Ind., 524, ♂ (1912).

Kurseong, 4—9-ix-09, *type* ♂; 27-vi-10 [both *Annandale*]; Darjiling, 8—11-viii-09, *type* ♀ [*Paiva*]; Kalimpong, 600—4500 ft., 24-iv—10-v-15 [*Gravely*]; Bhoirakund, Darrang Distr., Assam-Bhutan Frontier, 8—22-x 12 [*Kemp*] (with a doubt).

Types in Indian Museum.

gracilis, *id.*, Rec. Ind. Mus, VIII, 156, ♀, pl. vi, 3, wing (1913).

Yembung, N.E. Frontier, India, 1100 ft., 13-i-12 [*Kemp*].
Type in Indian Museum, a unique specimen.

remota de Meij., Tijd. v. Ent. LVI, Supp., p. 1 (1914).

Buitenzorg, iv-09 [*Bryant* and *Palmer*]; Nongkodjadjar, Java, ♂ ♀ [*Jacobson*]; Tjibodas, Mt. Gedé, Java, 4500 and 9000 ft. [*Bryant* and *Palmer*]. *Types* in Amsterdam Museum.

multipunctipennis Brun., Rec. Ind. Mus. XV, 319, ♂; pl. viii, 17 (1918).

Darjiling, 15—19-v-17. Unique *type* in my collection.

Epiphragma, Ost. Sack.

Proc. Acad. Nat. Sci. Philad. 238 (1859).
Sch., F. Austr. II, 550: Ost. Sack., Monog. Dipt. N. Amer. IV, 193, pl. i, 8: *id.*, Berl. Ent Zeits. XXXI, 208.
Genotype, *Limnobia fascipennis* Say (as *pavonina*, sp. nov.), by Coquillett's designation.

insignis Wulp, Tijd. v. Ent. XXI, 196, pl. xii, 6 (1878).

Sumatra. *Type* in Amsterdam Museum, in bad condition.

signata de Meij., *loc. cit.*, LIV, 52, ♂, pl. iv, 43, wing (1911).

Buitenzorg environs, Java, xi [*Jacobson*]; Tjibodas, Mt Gedé, Java, 4500 ft. [*Bryant* and *Palmer*].

Type, a unique ♂, in Amsterdam Museum.

kempi Brun., Rec. Ind. Mus. VIII, 155, ♀, pl. vi, 2, wing (1913). Edw., Ann. Mag. Nat. Hist. (8) XII, 204 (1913): Brun., Rec. Ind. Mus. XV, 330.

N.E. Frontier, India, 4000 ft., 16-iii-12 [*Kemp*]; Hakgala, Ceylon, 4500 ft., v-1911; Castle Rock and Talewadi, N. Kanara Distr. [*Kemp*]; Tura, Garo Hills, vii, viii-17 [*Kemp*].

Type in Indian Museum.

klossi Brun., Rec. Ind. Mus. XV, 330, ♂, pl. viii, 16, wing (1918). Ginting Bidai, 2,000 ft., Selangor-Pahang Frontier, Fed. Malay Sts., iv-17 [*Boden Kloss*]. Unique *type* in Indian Museum.

vicina, *id.*, *loc. cit.*, 331, ♀; pl. viii, 15, wing (1918). Sureil, Darjiling Distr., 5,000 ft., 11—31-x-17 *type* [*Annandale* and *Gravely*]; above Tura, Garo Hills, 3,500—3,900 ft., vii-17, viii-17 [*Kemp*]. *Type* in Indian Museum.

Ephelia, Sch.

Wien. Ent. Monats. VII, 222 (1863).

Sch., F. Austr. II, 549: Brun., Fauna Brit. Ind., 525.

GENOTYPE, *Limnobia marmorata* Hffg. in Mg., by personal designation (Fauna, p. 525).

Elocophila, Rond., Dipt. Hal. Prod. I, 182 (1856).

GENOTYPE, *Limnobia marmorata* Hffg. in Mg.

? *Nasiterna*, Wallengren, Ent. Tidskr. II, 179 (1881).

fascipennis Brun., Fauna Brit. Ind., 526, ♂, pl. x, 16, wing (1912).

Kurseong, 13-viii-09 [*Paiva*]; Pashok, 3500 ft. [*Hartless*]; Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*].

Type in Indian Museum.

ornata, *id.*, *loc. cit.*, 527, ♀ (1912).

Bhowali, Kumaon, 27-vi-10 [*Imms*].

Type in Indian Museum, a unique specimen.

Poecilostola, Sch.

Wien. Ent. Monats. VII, 222 (1863).

Sch., F. Austr. II, 551.

GENOTYPE, *Limnobia pictipennis* Mg., by original designation.

pallens Wulp, Notes Leyd. Mus. VII, 13 (1885).

Id., Tijd. v. Ent. XXVIII, 86, pl. iv, 8.

Java [*Kuhl*]. *Type* in Leyden Museum.

Ula, Hal.

Entom. Mag. I, 153 (1833).

GENOTYPE, *Limnobia macroptera* Macq. as U. *mollissima*, sp. nov.

javanica Alex., Proc., U.S. Nat. Mus., 176, pl. xliv, 24, wing (1916).

Tjibodas, Mt. Gedé, Java, 8000 ft. [*Bryant* and *Palmer*]. *Type*, Cat. No. 19,025, U.S. Nat. Mus.

Alexander removes this genus to the Limnophilini having bred a North American species and found the larva quite limnophiline.

Gynoplistia, Westw.

Lond. and Edinb. Philos. Mag. VI, 280 (1835).

Westw., Trans. Ent. Soc. Lond., 369 (1881), pl. xviii, 5, 6; Ost. Sack., Berl. Ent. Zeits. XXXI, 210: Brun., Rec. Ind. Mus. VI, 306 (notes on Orient. spp.).

GENOTYPE, *Ctenophora vilis* Walk., by personal designation, 1918.

Anoplistes, Westw., Zool. Jour., No. 20, ined.

GENOTYPE unknown to present author.

Caenarthria, Thoms., Eug. Resa, 445, pl. ix, 1.

GENOTYPE, *Gynoplistia viridis* Westw., by original designation.

Cloniophora, Sch., Verh. zool. bot. ges. Wien XVI, 932 (1866).

GENOTYPE, *Gynoplistia subfasciata* Walk., by original designation.

jurgiosa Walk., Proc. Linn. Soc. Lond. III, 78, ♂ ♀ (1859).

Aru. *Types*, in good condition, in British Museum.

fulviceps, *id.*, *loc. cit.*, V, 231, ♀ (1861).

Dorey, Papua. *Type* in British Museum in good condition, except that the abdomen is missing.

melancholica, *id.*, *loc. cit.*, VII, 203, ♂ ♀ (1864).

de Meij., Bijd. tot de Dierk. XIX, 41, notes.

Mysol, Waigou, 7-i-10. *Type* in British Museum in good condition, except that the abdomen is missing.

insolita Walk., Proc. Linn. Soc. Lond. VIII, 131, ♀ (1865).

Salawatti. *Type* in good condition in British Museum.

jucunda Ost. Sack., Ann. Mus. Gen. XVI, 105, ♂ ♀ (1880).

Kandari, Celebes. *Types* originally in Genoa Museum, only one now remaining.

8-fasciata Brun., Rec. Ind. Mus., VI, 307, ♀ (1911).

Patuhuang, South Celebes. Unique *type* in Vienna Museum.

occipitalis de Mej., Nova Guin. Res. IX, 310, ♂ (1913).

River Kamp, Papua, 12-ii-10

Unique *type* in Amsterdam Museum.

Section ANISOMERINI.[1]

Eriocera, Macq.

Dipt. Exot. I, 1, 74, pl. x, 2 (1838).

Ost. Sack., Mong. Dipt. N. Amer. IV, 244: *id.*, Berl. Ent. Zeits. XXXI, 220: Brun., Rec. Ind. Mus. VI, 307, notes, orient. spp.; XV, 334, tab. orient. spp.: *id.*, Fauna Brit. Ind., 530: *Auctt.*

GENOTYPE, *Limnobia nigra* W., by Macquart's designation.

Caloptera, Guer., Voy. de la Coq., Zool., Ins., pl. xx, (1830) *vide Evanioptera*, *post.*

GENOTYPE, *C. fasciata*, *id.*, sp. nov., *loc. cit.*

Evanioptera, *id.*, *loc. cit.*, Zool. II. 287, pl. xx, 2, full ins., 2a, head in profile; 2b, wing. (in plate as *Caloptera*, in text renamed *Evanioptera*)[2] (1830), *nom. nov.* for *Caloptera* under alleged preoccupation.

Pterocosmus, Walk., List Dipt. Brit. Mus. I. 78 (1848).

GENOTYPE, *P. hilpa* Walk., by Coquillett's designation.

Oligomera, Dol., Nat. Tijd. Ned. Ind. XIV, 387 (1857).

GENOTYPE, *Limnobia acrostacta* W., as *javensis*, sp. nov., by original designation.

Physecrania, Big., Ann. Soc. Ent. Fran. (3) VII, 123 (1859).

GENOTYPE, *P. obscura* Big., sp. nov., *loc. cit.*

Arrhenica, Ost. Sack., Proc. Acad. Nat. Sci. Phil., 243 (1859).

GENOTYPE, *A. spinosa* Ost. Sack., by Coquillett's designation.

Androclosma, Ender., Zool. Jahr. XXXII, 34 (1912).

GENOTYPE, *Megistocera verticalis* Wied., by original designation.

acrostacta Wied., Dipt. Exot. I, 14 (*Limnobia*) (1821).

Id., Auss. Zweifl. I, 26, ♂ ♀ (*Limnobia*): Macq., Dipt. Exot. I, 1, 68, pl. ix, 1, full ins., 1a, head profile (*Cylindrotoma*): *id.*, *loc. cit.*, Supp. I, 18, pl. ii, 6, wing, 6a, antenna (*Limnobia*); *id.*, *loc. cit.*, Supp. III, 7 (*Cylindrotoma*): Wulp, Notes

[1] For characters, *v.* Brun., Fauna Brit. Ind., 529.

[2] In the text, Guerin changes the name of the genus on account of having been previously employed by the Count of Castelnau in Coleoptera, but I cannot trace any such genus. The name *Caloptera*, however, has been suggested in four different cases subsequent to its use by Guerin.

Leyd. Mus. VII, 11: Alex., Proc. U.S. Nat. Mus. XLIX, 177, pl. xliv, 26, wing: Brun., Rec. Ind. Mus. XV, pl. viii, 19, wing.

Oligomera javensis, Dol., Nat. Tijd. Ned. Ind. XIV, 387, pl. vii, 3, full ins. (1857).

? *Limnobia, diana*, Macq., Hist. Nat. Dipt. I, 107 (1834): Walk., List Dipt. Brit. Mus. I, 42 (1848).

Java [*Muller*]; Tjibodas, Mt. Gedé, Java, iv-09 [*Bryant* and *Palmer*]; ? Bengal.

Types in Wiedemann's and Westermann's collections.

basilaris Wied., Dipt. Exot. I, 15, ♂ ♀ (*Limnobia*) (1821).

Id., Auss. Zweifl. I, 27 (*Limnobia*): Alex., Proc. U.S. Nat. Mus. XLIX, 177, pl. xliv, 27, wing.

Java, var. locs., iii, iv, v, xii [*t. de Meij.*]; Depok, 10-ii-99; Tjibodas, Mt. Gedé, Java, iv-09 [*Bryant* and *Palmer*].

Type in Westermann's collection.

mesopyrrha Wied., Auss. Zweifl. I, 26, ♂ (*Limnobia*) (1828).

de Meij., Tijd. v. Ent. LIV, 55: Brun., Rec. Ind. Mus. VI, 307: Ender., Zool. Jahr. XXXII, 33 (*Physecrania*); Alex., Proc. U.S. Nat. Mus. XLIX, 177, pl. xliv, 28, wing.

Sumatra, Gunung Ungaran, Java, xii [*Jacobson*]; Buitenzorg, iii-09 [*Bryant* and *Palmer*]. *Types* in Leyden Museum.

verticalis Wied., Auss Zweifl. I, 56, ♂ (*Megistocera*) (1828).

Wulp., Tijd. v. Ent. XXXVIII, 39, pl. ii, 6: de Meij., *loc. cit.*, LIV, 55: Brun, Rec. Ind. Mus., VI, 307; XV, 333: Alex., Proc. U.S. Nat. Mus. XLIX. 177, pl. xliv, 25, wing.

? *Megistocera atra* Dol., Nat. Tijd. Ned. Ind. XVII, 80 (1858).

Bantar Gebang, Java, 21-x-09 [*Bryant* and *Palmer*]; Semarang, xi; Wonosobo, iv, v [both *Jacobson*]; Taihoku, Formosa [*Shiraki*]; Laut Tawar, viii; Sinabang, ii; both Simalur Is., off Sumatra; Sandaran Agong, Sumatra. 2450 ft., v, vi-14.

Type from Java in Leyden Museum in bad condition.

nepalensis Westw., Ann. Soc. Ent. Fran. IV, 681 (*Caloptera*) (1835).

Id., Trans. Ent. Soc. Lond. 379 (*Caloptera*) (1881): Brun., Rec. Ind. Mus. VI, 308 also as *velutina*: *id.*, *loc. cit.*, XV, pl. vii, 13, wing: *id.*, Fauna Brit. Ind., 543.

velutina Walk., List Dipt. Brit Mus. I, 79 (*Pterocosmus*) (1848).

Nepal, and generally distributed along the Himalayas, the Bhutan-Frontier and Assam, Shillong and Peshawar.

Type in the Hope collection at Oxford University.

bicolor Macq., Dipt. Exot. I, 1, 66, ♀, pl. vii, 2, full ins. (*Limnophila*) (1838).

Wulp., Mid Sum. Exped., Dipt. 11, pl. 1, 5, 6[1]: de Meij., Tijd. v. Ent. LIV, 57 (♂ descr.): Ender., Zool. Jahr. XXXII,

[1] Wulp erroneously gives figs. 4 and 5.

33 (*Physecrania*): Brun., Fauna Brit. Ind., 545: *id.*, Rec. Ind. Mus. XV, pl. vii, 6, wing.

Bengal; Koetoer, Sumatra: Sandaran Agong, Korinchi Lake, Sumatra, 2450 ft., iv, v-1914; Java.

Type in Paris Museum.

sumatrensis Macq., Dipt. Exot., Supp. IV, 16, ♂, pl. 1, 7, full insect (*Limnobia*) (1851).

Brun., Rec. Ind. Mus. XV, pl. vii, 14, wing.

Sumatra. *Type* in Paris Museum.

leucotelus Walk., Proc. Linn. Soc. Lond. I, 6, ♂ (*Limnobia*) (1857).

Singapore.

Type in British Museum, in fair condition, but legless.

plecioides, *id.*, *loc. cit.*, I, 6, ♂ (*Limnobia*) (1857).

Singapore.

Type in British Museum, only one leg remaining.

dichroa, *id.*, *loc. cit.*, I, 6, ♀ (*Limnobia*) (1857).

Brun., Rec. Ind. Mus. VI, 308.

Mount Ophir. *Type* in British Museum, in bad condition.

rubrescens, *id.*, *loc. cit.*, I, 106, ♂ (*Limnobia*) (1857).

Borneo. *Type* in British Museum, in fair condition.

pyrrhochroma, *id.*, *loc. cit.*, I, 106, ♂ (*Limnobia*) (1857).

Borneo. *Type* in British Museum, in bad condition.

lunigera, *id.*, *loc. cit.*, I, 107, ♂ (*Pterocosmus*) (1857).

de Meij., Tijd. v. Ent. LIV, 56, ♂ ♀: Ender., Zool. Jahr. XXXII, 39, ♂ ♀ redescr.: Brun., Rec. Ind. Mus. VI, 308.

Borneo; Padang, etc., Sumatra; Buitenzorg, ix [*Jacobson*]. *Type* in British Museum in bad condition.

infixa, Walk., Proc. Linn. Soc. Lond., I, 107, ♂ ♀ (*Pterocosmus*) (1857).

Borneo.

optabilis, *id.*, *loc. cit.*, I, 107, ♀ (*Pterocosmus*) (1857).

Brun., Rec. Ind. Mus. VI. 309.

Borneo. *Type* in British Museum, valueless, apparently unique.

combinata, *id.*, *loc. cit.*, I, 107, ♀ (*Pterocosmus*) (1857).

Brun., Rec. Ind. Mus. VI, 309.

Borneo. *Type* in British Museum, damaged.

diluta, *id.*, *loc. cit.*, I, 108 (*Pterocosmus*) (1858).

Brun., Rec. Ind. Mus. VI, 309.

Borneo. *Type* in British Museum, valueless, sex unstated by Walker, now undiscoverable.

albonotata Loew, Peter's Natur. Reise Mozambique, Zool. V (Insek.) pl. i, 1 (*Limnobia*) (1862).

Ost. Sack., Berl. Ent. Zeits. XXXI, 223: v. Roder, Entom. Nachr. XIX, 234: Brun., Rec. Ind. Mus. VI, 308: *id.*, Fauna Brit. Ind., 547 ♂ ♀ redesc.

Peradeniya, 10-x [*Humbert*]; Cannia, near Trincomalee, 30-vii; Ceylon (var. locs. *t.* Edwards); Maskeliya [*Green*].

Described originally from Mozambique.

Type in Berlin Museum.

albipunctata Wulp, Tijd. v. Ent. XXIII, 158, pl. x, 3 antenna, 4, wing (1880).

Id., Notes Leyd. Mus. VII, 11: Brun., Rec. Ind. Mus. VI, 309.

Java, Semarang, i. *Type* originally in Amsterdam Museum, now lost, but other specimens (presumably *co-types*) present.

morosa Ost. Sack., Ann. Mus. Gen. XVI, 406, ♀ (1880).

Makessar. *Type* in Genoa Museum in fair condition.

selene, *id.*, *loc. cit.*, 406, ♀ (1880).

Enderl., Zool. Jahr. XXXII, 39: Brun., Rec. Ind. Mus. VI, 309.

Sumatra (Mt. Singalang).

Type in Genoa Museum in fair condition.

lunata Westw., Trans. Ent. Soc. Lond. 1881, 367, pl. xviii, 4.

Enderl., Zool. Jahr. XXXII, 35.

Sarawak. *Type*, unless in the Hope collection at Oxford, probably lost, no sex stated.

perennis Ost. Sack., Berl. Ent. Zeits. XXVI, 91, ♂ ♀ (1882).

Philippine Is. *Types*, a unique pair; location unknown.

mansueta, *id.*, *loc. cit.*, 92, ♂ ♀ (1882).

Philippines. *Types*, location unknown; probably originally in Osten Sacken's collection.

ferruginosa Wulp, Notes Leyd. Mus. VII, 13 (1885).

Enderl., Zool. Jahr. XXXII, 32, fig. S (wing) (*Physecrania*): Brun., Rec. Ind. Mus. VI, 309.

Java [*Kuhl*]; Semarang [*Jacobson*]; Sumatra.

Type in Leyden Museum.

humberti Ost. Sack., Berl. Ent. Zeits. XXXI, 221, ♀ (1887).

Brun., Fauna Brit. Ind., 536, ♀.

Pundeloya Valley, Ceylon, 3,800—3,900 ft., 26-xi—27-xii-1859 [*Humbert*]. *Type* in Geneva Museum. Edwards thinks a ♂ from Uva Prov., Madulsima, Ceylon, may be this species.

meleagris Ost. Sack., Berl. Ent. Zeits. XXXI, 221, ♀ (1887).

Brun., Fauna Brit. Ind., 537, ♀.

Between Nuwara Eliya and Gampola, Ceylon, 13—14-xii-1859 [*Humbert*]. Unique ♀ in Geneva Museum.

pachyrrhina Ost. Sack., Berl. Ent. Zeits. XXXI, 222, ♂ ♀ (1887).

Brun., Rec. Ind. Mus. VI, 309: *id.*, Fauna Brit. Ind., 537.

Kaduganawa, Ceylon, 8-x [*Humbert*].

Types, in cop., in Geneva Museum.

crystalloptera Ost. Sack., Berl. Ent. Zeits., XXXI, 222, ♂ (1887).

Brun., Rec. Ind. Mus. VI, 309: *id.*, Fauna Brit. Ind., 541.

Ceylon (Rambodde) [*Nietner*]; Madulsima, Pundaluoya, Haputule (all Ceylon ♂ ♀ and *t.* Edwards).
Type (an imperfect ♂) in Berlin Museum.

nigripennis de Meij., Bijd. tot de Dierk. XVII, 92, ♀ (1904).
Java. Riedel notes a ♀ from Formosa. It would fall in *Physecrania*. *Type* in Amsterdam Museum.

cingulata de Meij., Tijd. v. Ent. LIV, 58, ♂ ♀ (1911).
Alex., Proc. U.S. Nat. Mus. XLIX, 178, pl. xliv, 29, wing.
Pangeranga, Java; Berg Ungaran, x, xii [*Jacobson*]; Depok, 10-ii-09 [*Bryant* and *Palmer*].

ctenophoroides Edw., Ann. Mag. Nat. Hist. (8) VIII, 64, ♂ ♀ (1911).
Brun., Fauna Brit. Ind., 533.
Kandy, 19-v-92, *type* ♂; Kottawa, 29-iv-92, *type* ♀; Pallamadulla, 17-vi-92 [all Ceylon and *Yerbury*].
Types in British Museum. Edwards (*l.c.*) notes a variety.

scutellata Edw., Ann. Mag. Nat. Hist. (8) VIII, 65, ♂ ♀ (1911).
Brun., Fauna Brit. Ind., 534.
Pundaluoya, Ceylon, ix-92 *type* ♂; x-1897, *type* ♀ [*E. E. Green*]. *Types* in British Museum.

tuberculifera Edw., Ann. Mag. Nat. Hist. (8) VIII, 66. ♀ (1911).
Brun., Fauna Brit. Ind., 547.
Pundaluoya, Ceylon, xi-88 (*type*) [*E. E. Green*]; vii-89.
Type in British Museum.

fusca Edw., Ann. Mag. Nat. Hist. (8) VIII, 66, ♂ ♀ (1911).
Brun., Fauna Brit. Ind., 541.
Pundaluoya, Ceylon, iv-89 [*E. E. Green*].
Types in British Museum.

badia Brun., Rec. Ind. Mus. VI, 310, ♀ (1911).
Id., Fauna Brit. Ind., 538, ♀.
Peradeniya, 25-xii-01 [*Uzel*].
Type in Vienna Museum, a unique specimen.

rufibasis Brun., Rec. Ind. Mus. VI, 310, ♀ (1911).
Id., Fauna Brit. Ind. 538, ♀.
Tandong, Tenasserim, 4000 ft., May [*Fruhstorfer*].
Type in Vienna Museum, unique.

semilimpida Brun., Rec. Ind. Mus. VI, 311, ♂ (1911).
Id., Fauna Brit. Ind., 546 ♂ pl. x, 17, wing.
Khasi Hills, ix-1906, *type*; Nongpoh, Assam, vi-1906.
Type in the Pusa Collection.

plumbicincta Brun., Rec. Ind. Mus. VI, 311, ♂ (1911).
Id., Fauna Brit. Ind., 541, ♂, pl. xi, 16, abdomen: *id.*, Rec. Ind. Mus. XV, pl. vii, 11, wing.
Ukhrul, Manipur, viii-08, *type* [*Pettigrew*]; Darjiling, 3—9-vi-09, *cotype* [*Howlett*]; Phooboering, Lebong, 5000 ft., ix-10 [*Lefroy*]. *Type* in Indian Museum, *cotype* in Pusa coll.

fenestrata Brun., Rec. Ind. Mus. VI, 312, ♂ ♀ (1911).
Id., Fauna Brit. Ind., 535, ♂ ♀, pl. xi, 14, wing (part) 15, abdomen.
Central Tonkin, *type* ♂; Khasi Hills, 1000—3000 ft., iv-1905, *type* ♀. *Type* ♂ in Vienna Museum; *type* ♀ in Pusa collection.

greeni Brun., Rec. Ind. Mus. VI, 313, ♀ (1911).
Id., Fauna Brit. Ind., 539, ♀: Rec. Ind. Mus. XV, pl. vii, 8, wing.
Kandy, 24-xi-09 [*Green*].
Type in Indian Museum, a unique specimen.

angustipennis Ender., Zool. Jahr. XXXII, 33, ♂, fig. T, wing (*Physecrania*) (1912).
Soerakanda, Sumatra.
Type, a unique ♂, in Stettin Museum.

pannosa, *id.*, *loc. cit.*, 40, ♂ ♀, fig. W, wing (1912).
Soerakanda. *Types*, a unique pair, in Stettin Museum.

gamma, *id.*, *loc. cit.*, 42, ♂ ♀, fig. X, wing (1912).
Soerakanda and Liangagas, Sumatra.
Types in Stettin Museum.

sauteriana, *id.*, *loc. cit*, 42 ♀, fig. Y, wing.
Takao, South Formosa, Kotosho Is., Formosa, Arisan, Formosa, 8000 ft., 10-x-12 [*Nitobe*]. *Type* in Stettin Museum. Reidel notes two ♂ ♂ from Formosa.

paenulata, *id.*, *loc. cit.*, 43, ♂, fig. Z, wing.
Soerakanda; Sungei Penoh, Korinchi Valley, Sumatra, 2600 ft., iii-14. *Type* in Stettin Museum.

rufithorax Brun., Fauna Brit. Ind., 534, ♂ ♀ (1912).
Id., Rec. Ind. Mus. XV, pl. vii, 10, wing.
Kandy, viii-06, *type* ♂ ♀, ix-02; x-07, *cotype* ♂; Hadumalla, Ceylon [*Green*].
Type ♂ ♀ in Indian Museum, *cotype* ♂ in my collection.

tenuis, *id.*, *loc. cit.*, 539, ♂ (1912).
Nilgiri Hills, 3500 ft., iv-1910 [*Andrewes*]; Gudalur, Nilgiri Hills, 3000, 13-ix-17 [*Ras*].
Type in Indian Museum, a unique specimen.

aterrima, *id.*, *loc. cit.*, 540, ♀ (1912).
Maddathorai (Travancore) 18-xi-08 [*Annandale*].
Type, a unique ♀, in Indian Museum.

elongatissima, *id.*, *loc. cit.*, 542, ♂ (1912).
Trivandrum, vi-93, *type*; Aspamboo, Travancore, South India, vi-93. *Type* in Indian Museum.

flavipes, *id.*, *loc. cit.*, 544, ♂ (1912).
Id., Rec. Ind. Mus. XV, 333, pl. vii, 15, wing.
Kurseong, 9-ix-09 [*Annandale*].
Type in Indian Museum, a unique specimen.

testacea, *id.*, Fauna Brit. Ind., 548, ♀ (1912).
Nilgiri Hills, iv-1910 [*Andrewes*].
Type, a unique ♀, in Indian Museum.

nigerrima, *id.*, Fauna Brit. Ind., App. 571, ♀ (1912).
Id., Rec. Ind. Mus. XV, pl. vii, 16, wing.
Ghumti, vii-1911 [*Gravely*].
Unique *type* in Indian Museum.

triangularis, *id.*, Fauna Brit. Ind., App. 572, ♀ (1912).
Nilgiri Hills, 6000 ft., v-1911 [*Andrewes*].
Type in Indian Museum.

nigrina Riedel, Ent. Mitt. Berl., II, 273 (1913).
Kankao, Formosa, ♂ ♀, vii, ix-1912.
Type in Deut. Ent. Mus., *cotype* in Riedel coll.

xanthopyga de Meij., Tijd. v. Ent. LVI, Supp. p. 3, ♂ ♀, 1913 (Mar. 1914).
Nusa Kambangan, Java, iii [*Jacobson*].

unicolor de Meij., Tijd. v. Ent. LVIII, Supp. 12, ♂ ♀ (1916).
Simalur Island, Sumatra; Horisha, Formosa, 10-x-12 [*Nitobe*]; 1000 ft. [*Maki*]. *Types* in Amsterdam Museum.

simalurensis, *id.*, *loc. cit.*, 13, ♂ ♀ (1916).
Sinabang, ii, Laulo, viii, both, Simalur Island, off W. Coast, Sumatra. *Types* in Amsterdam Museum, a unique pair.

rubriceps Edw., Ann. Mag. Nat. Hist. (8) XVIII, 253, ♀ (1916).
Taipin, Formosa, 12-x-10 [*Shiraki*].
Unique *type* in British Museum.

lativentris Bezzi, Phil. Jour. Sci. XII, Sect. D, 113, ♂ (1917).
Luzon [*Baker*].

crassipes, *id.*, *loc. cit.*, 114, ♂ ♀ (1907).
Luzon [*Baker*].

cincta nom. nov., Brun., Rec. Ind. Mus. XV, 333, pl. vii, 7, wing (1918).
E. cingulata Brun., Fauna Brit. Ind., App. 570, ♂ (1912), preocc. de Meij., 1911.

aurantia Brun., Rec. Ind. Mus. XV, 335, ♀, pl. vii (1918).
Pashok, 2500 ft. [*Gravely*]; Kalimpong, Darjiling, 600—4500 ft., 24-iv—10-v-14 [*Gravely*]. A ♂ from Darjiling, 7000 ft., 12-vi-14 [*Gravely*], is probably the ♂ of this species.
Type in Indian Museum.

nigroapicalis Brun., *loc. cit.*, 335, ♀ (1918).
Kalimpong, Darjiling, 24-iv—10-v-14 [*Gravely*].
Unique *type* in Indian Museum.

pulchrithorax, *id.*, *loc. cit.*, 336, ♀ (1918).
On forest tramway, miles 10 to 14, 0—300 ft., Cochin State, 28—29-ix-14 [*Gravely*]. Unique *type* in Indian Museum.

rufiventris, *id.*, *loc. cit.*, 336, ♂ ♀ (1918).
Parambikulam, Cochin State, 16—24-ix-14 [*Gravely*]; Talewaddi, 3—10-x-16; Castle Rock, 11—26-x-16; Sidapur, Coorg, S. Ind., 7-vi, 2-vii. 20-ix-17. *Types* in Indian Museum.

gravelyi, *id.*, *loc. cit.*, 337, ♂ ♀, pl. vii, 9, wing (1918).
Pashok, Darjiling District, 1000—2500 ft., 26-v—14-vi-16 [*Gravely*]; Sureil, iv—v-17 [*Kemp*]; Tura, Garo Hills, vii-17; x-17 [*Kemp*]. *Types* in Indian Museum.

decorata, *id.*, *loc. cit.*, 337. ☿, pl. vii. 12, wing (1918).
Pashok, Darjiling District, 2000 ft., 26-v—14-vi-16 [*Gravely*]. *Type* in Indian Museum.

tripunctipennis, *id.*, *loc. cit.*, 338, ♂ ♀, fig. 7, wing (1918).
Castle Rock, N. Kanara Dist., 11—26-x-16 *type* ♂; Talewadi, N. Kanara Dist., 3—10-x-16, *type* ♀ [*Kemp*].
Types in Indian Museum.

caliginosa, *id.*, *loc. cit.*, 339, ♀ (1918).
Talewadi, N. Kanara Dist., 3—10-x-16 [*Kemp*].
Type in Indian Museum.

kempi, *id.*, *loc. cit.*, 339, ♂ ♀ (1918).
Castle Rock, N. Kanara Dist., 11—26-x-16 [*Kemp*].
Types in Indian Museum.

maculiventris, *id.*, *loc. cit.*, 340, ♂ ♀, pl. viii, 18, wing (1918).
Tura, Garo Hills, 1200—1500 ft., vii-17; above Tura, 3900 ft., vii, viii, x-17 [all *Kemp*].

pyrrhomesa Edw., Jour. Fed. Malay Sts. Mus. VIII, 21, ♂ ♀ (s.g. *Physecrania*) (1919).
Sandaran Agong, Korinchi Peak, Sumatra, 2450 ft., v, vi-14.
Types in British Museum.

klossi, *id.*, *loc. cit.*, 22, ♀, pl. iv, 14, wing (s.g. *Ericcera*) (1919).
Sandaran Agong, Sumatra, 2450 ft., v—vi-14.
Type in British Museum.

Family RHYPHIDAE.

Rhyphus, Latr.

Hist. Nat. Crust. et Ins. XIV, 291 (1804).
Sch., F. Austr. II, 494: Brun., Rec. Ind. Mus. IV, 259, tab. Ind. spp.: *id.*, Fauna Brit. Ind., 500.
GENOTYPE, *Tipula fenestralis* Scop., the original species, as *fenestratum* Scop.

Sylvicola, Harris, Expos. Engl. Ins., 104 (1776).
GENOTYPE, *Tipula fenestralis* Scop., as *brevis*, sp. nov.; by Coquillett's designation.

Anisopus Mg. Illig. Mag. II, 264 (1803).
No species given in 1803. In "Klass." p. 103. *Tipula fuscata* F. as *fuscus*, sp. nov., is given as genotype, according to Coquillett.

fenestralis Scop.,[1] var. **indicus** Brun., Rec. Ind. Mus. IV, 261, ♂ ♀ (1911).

Brun., Fauna Brit. Ind., 554, ♂ ♀, pl. xii, 3 (typical), 4 (var.).

Simla, 24-iv-07, 10-v-09; Matiana, 28—30-iv-07; [both *Annandale*]; Darjiling 5—9-viii-09 [*Paiva*]; Kurseong, xi-10 [*D'Abreu*]; Ukhrul, Manipur, Assam, 6400 ft. [*Pettigrew*].

Type of *fenestralis* Scop., location uncertain; of var. *indicus* in Indian Museum. This form seems present at all the Hill Stations in Northern India.

punctatus F., Mant. Ins. II, 333 (*Rhagio*) (1787).

Musca nigricans, L., Fauna Suec., Ed. II, 553 (1761).

Rhagio punctatus. F., Mant. Ins. II, 333 (1787).

Musca bilineata, Gmel., Syst. Nat. V, 2866 (1792).

Anisopus nebulosus, Mg., Klass. I, 103, pl. vi, 5, ♂ (1804).

Sciara punctata, F., Syst. Antl., 59 (1805).

Rhyphus marginatus, Say, Jour. Acad. Sci. Phil. III, 27 (1822), and Compl. Writ. II, 50 (1859): Wied. Auss. zweifl. I, 82 (1828).

Rhyphus punctatus Sch., Fauna Austr. II, 495 (1864): Brun., Rec. Ind. Mus. IV, 262: *id.*, Fauna Brit. Ind. 555, pl. xii, 5, wing.

Kurseong, 9—26-ix 09 [*Lynch*, *Annandale*].

Type: location uncertain.

maculipennis Wulp, Notes Leyd. Mus. VII, 14, ♂ (1885).

Id., Tijid. v. Ent. XXVIII, 87, pl. iv, 9: *id.*, *loc. cit.*, XXXVIII, 41; LIV, 258: Brun., Rec. Ind. Mus. IV, 260: *id.*, Fauna Brit. Ind., 552, ♂ ♀, pl. xii, 1, wing.

Ardjoeno, Java [*Hekmeyer*]; Batavia, ii; Pulu Babi Is., off W. Coast, Sumatra, iv; Peradeniya, x, xii-07; also probably Assam (exemp. in Ind. Mus. coll. *sine loc.*, 30-vii-10).

Type in Leyden Museum, a ♂.

pulchricornis Brun., Rec. Ind. Mus. IV, 260, ♀ (1911).

Id., Fauna Brit. Ind. 553, ♀, pl. xii. 2, wing.

Siliguri, 18—20-vii-07; Ghumti, 4000 ft. [*Gravely*].

Type in Indian Museum.

distinctus Brun., Rec. Ind. Mus. IV, 262, ♂ ♀ (1911).

Id., Fauna Brit. Ind. 556, ♂ ♀, pl. xii, 6, wing.

Darjiling, 5—8-viii-09 [*Paiva*]; Kurseong, 4-ix-9 [*Annandale*]; Kowpati, Mangaldai, Assam, 12-xii-10 [*Kemp*].

Types in Indian Museum.

divisus Brun., Rec. Ind. Mus. IV, 263, ♂ ♀ (1911).

id., Fauna Brit. Ind. 557, ♂ ♀, pl xii, 7, wing.

Darjiling, 5—12-viii-09 [*Jenkins*, *Paiva*, common]; Kurseong, 10—26-ix-09 [*Lynch*]; Gangtok, Sikkim, 9-ix-09; Phagu, 12-v-09 [*Annandale*]. Two pairs taken *in cop*; Darjiling, 5-viii-09 and Gangtok, 6150 ft., 8-ix-09.

Types in Indian Museum.

[1] For references to typical form see Kertesz' Kat. Dip. I, 305.

flavipes de Meij., Tijd. v. Ent. LIV, 259, ♂ ♀, pl. xviii, 1, wing (1911).
Wonosobo, Java [*Jacobson*].
Types, a unique pair, in Amsterdam Museum.

hellwigi de Meij., Nova Guin. Res. IX, 315, ♀, pl. x, 8, wing (1913).
Hellwig-Gabirge, Papua, 2000 metres, xi.
Type in Amsterdam Museum.

Olbiogaster, Ost. Sack.

Biol. Cent. Am. Dipt. I, 20 (1886).
GENOTYPE *O. cognata* Ost. Sack., sp. nov.

orientalis Edw., Ann. Mag. Nat. Hist. (8) XVI, 504, ♀ (1915).
Pundaluoya, Ceylon, vii-97 [*Green*].
The unique *type* in the British Museum.

II. APPENDIX TO CATALOGUE.

(A) Additions to the Family CECIDOMYIDAE.

Subfamily *CECIDOMYINAE.*

Sect. LASIOPTERARIAE.

Lasioptera, Mg.

manilensis Felt, Phil. Jour. Sci., XIII, D. 288, ♀ (1918).
Laguna, Luzon, reared from leaf galls on *Leea manillensis*, Walp.
Type, Cecid. a 2851, New Yk. State colln; *paratype* ♂ ♀ in College of Agric., Los Banos, Phil. Is.

falcata Banks, Phil. Jour Sci. XIV, 288, ♀ (1919).
Los Banos, Laguna Prov., Luzon, 3-i-17.
Type, Cecid. a 2887, New York State collection, a unique specimen.

Sect. OLIGOTROPHARIAE.

Luzonomyia, Felt.

Phil. Jour. Sci. XIII, D. 282 (1918).
GENOTYPE *L. symphoremae*, sp. nov.
This genus is near *Oligotrophus*, Latr.

symphoremae Felt, Phil. Jour. Sci. XIII, D. 282, ♂ ♀ pl. i, 1, ♂ genitalia; 2, ♀ genitalia (1918).
Luzon (var. locs.); reared from leaf galls on *Symphorema luzonicum*, F. Vill.
Type, Cecid. a 2850, New Yk. State colln.; *paratype* No. 18,315 in College of Agric., Los Banos.

Sect. ASPHONDYLIARIAE.

Schizomyia, Kieff.

acalyphae Felt, Phil. Jour. Sci. XIII, D, 286, ♀ (1918).
Laguna, reared from leaf galls on *Acalypha stipulacea*, Klotz.
Type, Cecid. a 2848, New Yk. State colln.; part of *type* material in College of Agric., Los Banos.

diplodisci Felt, *loc. cit.*, 287, ♂ ♀ (1918)
Mt. Maquiling, Laguna, 29-viii and 3 and 6-ix-17.
Type, Cecid. a 2849, New Yk. State colln.; *paratypes* ♂ ♀, No. 18,314, College of Agric., Los. Banos.

Asphondylia, Loew.

vitea Felt, Phil. Jour. Sci. XIII, D, 284, ♂ ♀ (1918).
Manila, 1905; reared from stem galls on *Cissus trifolia*, L.
Type, Cecid. a 2839, New Yk. State colln.; *cotype* ♂ ♀ in Bureau of Science, Manila; Entom. Colln. No. 3252.

callicarpae Felt, Phil. Jour. Sci. XIII, D, 285, ♂ ♀ (1918).
Mt. Maquiling, Laguna, Luzon, 1917. Reared from leaf galls on *Callicarpa crioclona*, Schauer.
Type, Cecid. a 2843, New Yk. State colln.; *paratype* ♂ ♀ No. 18,147, College of Agric., Los Banos.

grewiae Banks, Phil. Jour. Sci. XIV, 289, ♂ (1919).
Mt. Maquiling, Laguna Prov., Luzon, 23-ix-17.
Type, Cecid. a 2880, New York State collection, a unique ♂. Bred from leaf galls on *Grewia stylocarpa*, Warb.

Diceromyia, Felt.

Phil. Jour. Sci. XIII, D. 283 (1918).
GENOTYPE *D. vernoniae*, sp. nov.
This genus is near *Zalepidota*, Rubs.

vernoniae Felt, *loc. cit.*, 284, ♂, pl. i, 3, ♂ genitalia (1918).
Laguna, Luzon; reared from leaf galls on *Vernonia lancifolia*, Merr.
Type, *Cecid.* a 2842, New Yk. State colln.

Sect. CECIDOMYIARIAE.

Arthrocnodax, Rubs.

coprae Banks, Phil. Jour. Sci. XIV, 291, ♂ ♀ (1919).
Los Banos, Phil. Is, 6-x-17.
Type, Cecid. a 2883, New York State collection.

Kronodiplosis, Felt.

Phil. Jour. Sci. XIII, D. 289 (1918).
GENOTYPE, *K. uichancoi*, sp. nov.

uichancoi Felt, *loc. cit.*, 289, ♂; pl. i, 4, 3rd antennal segment ♂.
Laguna, from leaf galls on *Barringtonia luzonensis*, Rolfe.
Type, Cecid. a 2847, New Yk. State colln.; *paratype* ♂ No. 18,307, College Agric., Los Banos.

Kamptodiplosis, Felt.

Phil. Jour. Sci. XIII, D, 290 (1918).
GENOTYPE, *K. reducta*, sp. nov.

reducta Felt, *loc. cit.*, 290, ♂ ♀; pl. i, 5, 5th segment of ♂ antenna, 6, ♂ genitalia (1918).
Laguna (Balong Bulo Hill, near Los Banos); reared from leaf galls on *Siphonodon celastrineus*, Griff.
Type, Cecid. a 2852, New Yk. State colln.

Heliodiplosis, Felt.

Phil. Jour. Sci. XIII, D. 291 (1918).
GENOTYPE, *H. spatholobi*, sp. nov.

spatholobi Felt, *loc. cit.*, 291, ♀, pl. i, 7, ovipositor (1918).
Laguna; reared from leaf galls on *Spatholobus gyrocarpus* (Wall) Benth.
Type, Cecid. a 2853, New Yk. State colln.

Profeltiella, Kieff.

Neue Gallmucken Gatt. Bitsch, p. 2 (1912).
Lestodiplosis Kieff., pt., Bull. Soc. Hist. Nat. Metz. XXVI, 25 (1909).

orientalis Felt, Phil. Jour. Sci. XIII, D, 292, ♂ ♀ (1918).
Laguna; reared from galls on *Siphonodon celastrineus*, Griff.
Type, Cecid. a 2852 a, New Yk. State colln.

Hyperdiplosis, Felt.

Bull. N. Yk. State Mus. CXXIV, 405 (1908).
Cecidomyia Felt, pt., Rep. 22, N. Yk. State Mus. CX, 136 (1907).

banksii Felt, Phil. Jour. Sci. XIII, D. 294, ♀ (1918).
Laguna; reared from leaf galls on *Cissus adnata*, Wall.
Type, Cecid. a 2846, New Yk. State colln.

Coccodiplosis, de Meij.

Tijd. v. Ent. LX, 238 (1917).
GENOTYPE, *C. pseudococi*, *id.*, sp. nov.

pseudococci de Meij., *loc. cit.*, 239, ♂ ♀, fig. 1 *a—g*.
Salatiga, Java [*Dr. Koepke*]. Parasitic on *Pseudococcus crotonis*. *Type* in Amsterdam Museum.

relicta Felt, Phil. Jour. Sci. XIII, D. 295, ♀ (1918).
Manila, 1911.
Type, Cecid. a 2841, New Yk. State colln.; *paratype* No. 16,015, College of Agric., Los Banos.

Tricontarinia, Kieff.

luzonensis Felt, Phil. Jour. Sci. XIII, D. 293, ♂ ♀ (1918).
Laguna; reared from leaf galls on *Parashorea melaanonan*, (Blanco) Merrill.
Type, Cecid. a 2844, New Yk. State colln.; *paratype* No. 18,151, College of Agric., Los Banos.

Contarinia, Rond.

Atti. Soc. Sc. Nat. Milano, II, 287 (1860).
Diplosis, Lw., pt. Dipt. Beitr. IV, 34 (1850).
Eudiplosis, Kieff., Bull. Soc. Ent. Fran. 28 (1894).
Genotype, no species set up; two undescribed new species mentioned, *isorbi* and *brizae*.

saltata Banks, Phil. Jour. Sci. XIV, 289, ♂ (1919).
Los Banos, Luzon, 6-ii-18. Taken in spider's webs.
Type, Cecid. a 2884, New York State collection.

Bremia, Rond.

Atti. Soc. Sc. Nat. Milano, II, 287 (1860).
macrofilum Banks, Phil. Jour. Sci. XIV, 290, ♂ ♀ (1919).
Kolambugan, Lanao Distr., Mindanao, Phil. Is., 10-vi-14. Taken in spiders' webs.
Type, Cecid. a 2888, New York State collection.

Cecidomyia, Mg.

paederiae Banks, Phil. Jour. Sci. XIV, 293, ♂ ♀ (*Itonida*) (1919).
Los Banos, Phil. Is., 13-x-17. Bred from leaf galls on *Paederia tomentosa*, Blume. *Type*, Cecid. a 2882, New York State collection.

philippinensis Banks, Phil. Jour. Sci. XIV, 294, ♀ (1919).
Mt. Maquiling, Laguna Prov., Luzon, 3-ix-17.
Type, Cecid., a 2889, New York State collection, a unique specimen.

Ctenodactylomyia.

antidesmae Banks, Phil. Jour. Sci. XIV, 287, ♀ (1919).
Mt. Maquiling, Laguna Prov., Luzon, 2-x-17.
Type, Cecid. a 2881, New York State collection. Reared from leaf galls on *Antidesma leptocladum*, Tul., a unique specimen.

N.B.—I have been unable to place all these genera in systematic order

(B) Errata et Addenda.

Page 2, after line 7, add: From a short correspondence quoted by Aldrich (Can. Ent. XLIII, 34) between him and the International Commission on Zoological Nomenclature, it would appear that that Institution regards Meigen's names of 1900 as *available*, but that the question of their validity rests with dipterologists on the basis of their correct identification or otherwise. This is, of course, a flagrant violation of the principle of adopting the customs of the times in which the earlier authors wrote.

Page 9, *Microperrisia*, Kieff. Add the reference: Kieff., Gen. Ins. Fasc. 152, 41.
The *type* is *brachypsectra*, Kieff., by original designation.

Page 9, line 2 from bottom: The species *ischaemi*, Kieff., was placed provisionally in *Oligotrophus* (Kieff., Roy. Bot. Gard., Kew, Bull. 3, 71, 1910), but it is now referred to *Hormomyia*: (Fletcher, Agric. Res. Inst. Pusa, Bull. 89 "2nd hundred notes on Indian Insects," p. 46, 1912). The adult is from Coimbatore, South India, reared from galls on *Ischaemum pilosum*. The identity of the species is not quite certain.
Type Cecid. a 2781.

Page 11, line 11 from bottom: replace the term DIPLOSARIAE by CECIDOMYIARIAE, with which it is synonymous.

Page 12, *Chrysodiplosis*, Prof. Kieffer informs me (*in litt.*) that he designated *pulchricornis*, Kieff., as *type*.

Page 15, add the following species after 2nd line. *Dyodiplosis andropogonis*, Felt, Ent. News, XXVIII, 369—372 (Oct. 1917). *Type* Cecid. a 2782.

Page 15, for *Pseudhormomyia fluviatilis* read *fluvialis*.

Page 15, *Pseudhormomyia fluvialis* and *cornea* are now referred to *Dyodiplosis*, according to Mr. Fletcher ("2nd hundred notes on Indian Insects," p. 49) (1919).

Page 17, *Epidosis*, Loew, add the reference: Kieff., Gen. Ins. Fasc. 152, 271.

Page 17, *Epidosis indicus*. *Type* belonging to Indian Museum.

N.B.—As the species *indicus* is now referred to *Dicroneurus*, the whole matter relating to *Epidosis* must be deleted.

Page 18, *Lestremia indica*. The *type* (a ♀) in Indian Museum.

Page 32, *Leia nigricoxa*. *Types* of *nigricoxa* and *spathulata* in Indian Museum.

Page 43, *Simulium striatum*. *Type* in Indian Museum.

Page 47, *Atrichopogon flaviceps*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 48, as regards the *type* species of *Prohelia*, Prof. Kieffer writes me that no species was definitely selected but that *ornaticrus* was the first one described and he evidently regards this species as genotype. It seems to me, however, my argument (Cat. p. 48, footnote) stands good.

Page 49, *Prohelia theobromae*. Nine *paratypes* in Indian Museum.

Page 50, *Forcipomyia sauteri*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 50, line 28: for *conifera* read *conigera*.

Page 52, *Culicoides formosae* and *C. indecora*. *Types* of both species in Deuts. Ent. Mus., Berlin-Dahlem.

Page 53, *Palpomyia taitana*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 57, *Bezzia nigricans*. *Type* in Indian Museum.

Page 58. *Bezzia formosana* and *chrysolopha*. *Types* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 62, *Trichotanypus* Kieff. Prof. Kieffer (*in litt.*) apparently regards *posticalis* Lund. as genotype.

Page 62, *Protenthes bilobatus*. *Type* should be in Indian Museum, but it is apparently not there.

Page 63, *Procladius formosanus*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 66, *Cricotopus carnosus*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 66, the only species included in *Thalassomyia* Johann. (*nec* Sch.) at its erection was *obscura* Johann.

Page 68, *Tanytarsus formosanus*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 68, *Micropsectra* Kieff., Bull. Soc. Hist. Nat. Metz. XXVI, 50 (1909). GENOTYPE, the only species mentioned, *inermipes* Kieff.

Page 68, *Polypedilum* Kieff., Supp. Ent. Berl. I, 41 (1912). GENOTYPE, the only species included at its erection, *pelostolum* Kieff., sp. nov., *loc. cit.* Prof. Kieffer informs me that the generic diagnosis did not appear until 1913, in the Bull. Soc. Hist. Nat. Metz. XXVIII, 15, where only a single species, *emarginatum*, was mentioned, but he adds that this paper was written in 1911 or 1912. He therefore considers that *pelostolum* must be the genotype.

Page 69, *Polypedilum fasciatipenne*, in the reference to Dr. Baini Prashad's paper on the anatomy of a larva of *Polypedilum*: for Vol. XV, read vol. XIV; also add the date (1918).

Page 69, *Polypedilum pelostolum*. *Type* in Deuts. Ent. Mus., Berlin-Dahlem.

Page 69, for *Polypedilum brumalei*, read *brumale*.

Page 69, *Paratendipes* Kieff., Bull. Soc. Hist. Nat. Metz, XXVII, 41 (1911). GENOTYPE by original designation *Chironomus albimanus*, Mg.

Page 70, *Glyptotendipes*, Kieff. The generic characters are given in Rec. Ind. Mus. IX, 197 (1913).

Page 70, *Prochironomus*, Kieff., Bull. Soc. Hist. Nat. Metz. XXVI, 53 (1909). GENOTYPE, by original designation *P. pallidus*, Kieff.

Page 71, line 5: for *stripes* read *atripes*.

Page 79, add following details to species: *formosae*, ♂ ♀, pl. ii. 4, ♂ genitalia; *sordidus* ♀; *tainanus* ♂ ♀, pl. ii, 5, ♂ genitalia; *formosicola*[1] ♂ ♀, pl. ii, 6, ♂ genitalia; *prasinellus* ♂ ♀, pl. ii, 7, antennae (part), 8, ♂ genitalia; *chlorophorus* ♂, pl. ii, 9, ♂ genitalia; *chlorostolus* ♂ ♀, fig. 10, antennae; 11, ♂ genitalia; *pelochloris* ♂ ♀, fig. 12, ♂ genitalia, part; *glauciventris*, ♂ ♀, fig. 13, ♂ genitalia. Figures 10 to 13 are text-figures. The *types* of all the above species are in the Deuts. Ent. Mus., Berlin-Dahlem.

Page 80, for *Tripelina* read *Tripelma*.

Page 80, line 12: for *conifer* read *coniger*.

Page 87, *Phlebotomus himalayensis*. *Type* in Indian Museum.

Page 87, add the following species to *Phlebotomus*, Rond.:

nicnic Banks, Phil. Jour. Sci., XIV, 163, ♂ ♀ (1919).
Laguna and Los Banos, Luzon [*Banks*].
Type ♂ ♀, No. 18,492 in Entom. colln., College of Agric., Los Banos, Phil. Is. Some *paratypes* exist.

Page 92, Sect. Anophelini: For diagnostic table of genera in the "Anophelina subfamily," see Giles, "A Revision of the Anophelinae" (London 1904). *Anopheles* (restr.) p. 23; *Stethomyia*, 25; *Cycloleppteron*, 26; *Myzomyia*, 27; *Pyretophorus*, 33; *Myzorhynchus*, 37; *Arribalzagia*, 40; *Chrystya* (MS. name), 40; *Nyssorhynchus*, 41; *Cellia*, 45; *Aldrichia*, 46.

Page 92, Major James, in Paludism, No. 2, pp. 52–63 (Jan. 1911) contributes a paper entitled "Notes on Mosquitoes" in which is given a key to the Indian Anophelines.

Page 92, line 12: for *grabhami* read *grabhamii*.

Page 92, to footnote 1 add: For structure of ♂ genitalia in *Anopheles*, v. Christop., Ind. Jour. Med. Res. III, 371, with excellent figures.

Page 102, line 20: for p. 32 read 33.

Page 105, line 6 from bottom: after V, 24 add (*Myzomyia*).

[1] Spelt incorrectly *[illegible]* in Catalogue

Page 111, line 19 should read, Occurs at Lake Tiberias in Palestine and on the Beyruth River in Syria.

Page 115, after 5th line from bottom, add: Christophers, in Paludism, No. 3, pp. 40—54, offers an interesting paper, "Aids to the identification of Culicidae other than *Anopheles*, with special reference to Indian species," July 1911.

Page 119, *Toxorhynchites minimus*, Theob., add the reference: White, Spol. Zeyl. XI, 189, ♀, described (1919).

Page 122, line 22: *malayi* is a good species, described as a *Uranotaenia*. *Armigeres malayi*, Edw.; and *Desvoidea fusca*, Theob., are identical. Delete the Kuala Lumpur locality as Edwards says the only specimens from this locality referred by Theobald to this species are *obturbans*.

Page 124, line 6 from bottom: for p. 285 read 283.

Page 125, add as a further generic synonym after *Scutomyia*: *Hulecoetomyia*, Theob., Entom. XXXVII, 163 (1904): Monog. Culic., IV, 219 (1907). GENOTYPE, *H. trilineata* Leices. in Theob., sp. nov., *loc. cit.*, by my own designation. (Rec. Ind. Mus. X, 62, 1914).

Page 128, add to *albolineata*, Giles, the following references: Giles, Handbk., 2nd Ed., 430, ♀, pl. xvii, 10a, venation ♀ (1902): Theob., Monog. Culic. III, 192, ♀: Brun., Rec. Ind. Mus. IV, 452. *Type* in British Museum.

Page 131, add: *Oculeomyia*, Theob. pt. as a synonym of *Grabhamia*.

Page 134, delete last line beginning *Neomacleaya*.

Page 135, delete first two lines.

Page 141, the date of the species *Ochlerotatus oreophilus* is 1916, and of *koreicus*, 1917.

Page 145, the date of the species *ceylonicus*, *yerburyi* and *leicesteri* is 1917.

Page 152, the date of the species *Culiciomyia spathifurca* is 1915.

Page 154, the date of the species *Lophoceratomyia curtipalpis* is 1914.

Page 180, line 4 from bottom should read: GENOTYPE, *Wyeomyia aranoides*, Theob., etc.

Page 180, *Topomyia tipuliformis*. In text, for *argyroventralis* and *argentoventralis*, read *argenteoventralis*.

Page 185, *Corethrella inepta* Annand. For notes on habitat see A. J. MacDougall, Spol. Zeyl VIII, 71 (*Ramcia inepta*) (1918).

Page 185, *Dixa montana* Brun. For full description of larva and pupa see B. Prashad, Rec. Ind. Mus. XV, 156, pl. xix, var. chars. (1918).

Page 187, *Tanyderus mirabilis*, add the closer locality : Kloof-Biwak, 20-x-12 [*Versteeg*]. Unique ♀ *type* belongs to the Buitenzorg Museum.

Page 187, in the footnote respecting the type species of *Ctenophora* I overlooked having myself suggested *pectinicornis* L. as genotype (Fauna Brit. India, Errata). At that time I had not studied the point closely, and in any case the suggested species would be invalid as Rondani's designation of *flaveolata* F. stands good.

Page 193, delete the species *elongata*, Edw., with full data. It is already recorded under *Pselliophora*, p. 192.

Page 204, after the species *robinsoni*, add the following :—

pseudofulvipennis de Meij., Bijd. Dierk., Feest-nummer, 18, ♂ ♀ (1919).

Korinchi Peak, Sumatra, viii.

Types in Amsterdam Museum. Dr. Meijere has also seen the species from Java, and it is very near the European *fulvipennis*.

Page 204, before the genus *Longurio*, insert the following new genus and species.

Sphaerionotus, de Meij. gen. nov.

Bijd. Dierk., Feest-nummer, 17 (1919).
Genotype, *S. curtipennis*, *id.*, sp. nov., *loc. cit.*

curtipennis de Meij., *loc. cit.* 18, pl. ii, 8 wing (1919).

Murao Sako, Sumatra, x. Unique ♂ *type* in Amsterdam Museum. The genus is allied to *Tipula*.

Page 209, add the following species of *Pachyrhina* :—

nigrithorax de Meij., Bijd. Dierk., Feest-nummer, 18, ♀ (1919).

Air Njuruk, Dempu, Sumatra, 1400 metres, viii.

The unique ♀ *type* in Amsterdam Museum.

Page 212, add the following new genus and species to Cylindrotomini :—

Agastomyia, de Meij., gen. nov.

Bijd. Dierk., Feest-nummer, 17 (1919).
Genotype, *A. albitarsis*, *id.*, *loc. cit.*, sp. nov.

albitarsis de Meij., *loc. cit.* 17, pl. ii, 7, wing (1919).

Sungai Kumbang, Sumatra, ix.

Unique *type* ♂ in Amsterdam Museum.

Page 217, add following species to the genus *Dicranomyia* :—

signata de Meij., Bijd. Dierk., Feest-nummer, 13, ♂, pl. ii, 1, wing, 1919.

Korinchi Peak, Sumatra, viii. Unique ♂.

Type in Amsterdam Museum.

Page 222, add following species of *Limnobia* :—

stigmosa de Meij., Bijd. Dierk., Feest-nummer, 14, pl. ii, 2, wing (1919).

Suban Ajam, Sumatra, vii. *Type* in Amsterdam Museum, sex not stated.

Page 224, *Dapanoptera versteegi* de Meij. Add following data: fig. 2, wing. Dutch South Papua, 28-ix-12, one ♀.

Type belonging to Buitenzorg Museum.

Page 225, *Libnotes strigivena* Walk. Add new locality, Biwak Island, Papua, ix, one ♂.

Page 225, *Libnotes quadrifurca* Walk. Add new locality, Beaufort-Fluss, Papua, xi, one ♂.

Page 228, add following species of *Libnotes* :—

tripunctata de Meij., Bijd. Dierk., Feest-nummer, 14, pl. ii, 3, wing (1919).

Suban Ajam, Sumatra, vii.

Unique ♀ *type* in Amsterdam Museum.

Page 239, add following species of *Acyphona* :—

punctulata de Meij., Bijd. Dierk., Feest-nummer, 14, pl. ii, 4, wing (1919).

Sungei Kumbang, Sumatra, ix.

Unique ♀ *type* in Amsterdam Museum.

Page 246, add following species of *Gnophomyia* :—

fascipennis de Meij., Bijd. Dierk., Feest-nummer, 15, pl. ii, 5, wing (1919).

Muara Sako, Sumatra, ix.

Unique ♂ *type* in Amsterdam Museum.

Page 242, add following species of *Mongoma* :—

nigriceps de Meij., Bijd. Dierk., Feest-nummer, 15 (1919).

Suban Ajam, Sumatra, vii.

Unique *type* ♀ and a damaged specimen in Amsterdam Museum.

Page 256, add following species of *Epiphragma.*

kerberti de Meij., Bijd. Dierk., Feest-nummer, 16, pl. ii, 6, wing (1919).

Air Njuruk, Dempu, Sumatra, 1400 metres, viii ; Suban Ajam, Sumatra, vii. *Type* in Amsterdam Museum, sex not stated.

Page 268, *Diceromyia* Felt. This name is preoccupied in Culicidae by Theobald, 1911.

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